

RIFLE DATA

30-40 Krag				Case: Winchester Twist: 1:10" Primer: CCI 200			Barrel length: 24" Trim length: 2.304"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2219	.308"	3.090"	36.0	2,369 fps	-	40.0	2,518 fps	-
	AR2206H	.308"	3.090"	38.5	2,410 fps	-	42.0	2,575 fps	-
	AR2209	.308"	3.090"	46.0	2,198 fps	-	49.0	2,388 fps	-
	AR2213SC	.308"	3.090"	45.0	2,129 fps	-	49.0	2,306 fps	-
165 GR. HDY BTSP	AR2219	.308"	3.105"	35.0	2,228 fps	-	39.0	2,402 fps	-
	AR2209	.308"	3.105"	45.0	2,115 fps	-	48.0	2,242 fps	-
	AR2213SC	.308"	3.105"	44.0	1,967 fps	-	48.0	2,176 fps	-
180 GR. SPR GS SP	AR2219	.308"	3.090"	33.0	2,111 fps	-	37.0	2,250 fps	-
	AR2206H	.308"	3.090"	35.0	2,171 fps	-	38.0	2,265 fps	-
	AR2209	.308"	3.090"	43.0	2,006 fps	-	46.0	2,110 fps	-
200 GR. SIE SPBT	AR2219	.308"	3.090"	32.0	1,915 fps	-	35.0	2,075 fps	-
	AR2209	.308"	3.090"	42.0	1,929 fps	-	44.0	2,018 fps	-
220 GR. HDY RN	AR2219	.308"	3.080"	30.0	1,852 fps	-	33.0	1,969 fps	-
	AR2209	.308"	3.080"	40.0	1,874 fps	-	42.0	1,947 fps	-
7.5 x 55mm Swiss				Case: Norma Twist: 1:10.6" Primer: Winchester LR			Barrel length: 31" Trim length: 2.175"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR. SIE SP	AR2206H	.308"	2.800"	41.0	2,639 fps	-	43.0	2,762 fps	-
	AR2209	.308"	2.800"	47.0	2,565 fps	-	51.0	2,839 fps	-
	AR2213SC	.308"	2.800"	49.0	2,639 fps	-	52.0	2,811 fps	-
150 GR. HDY SP	AR2206H	.308"	2.790"	40.0	2,484 fps	-	42.0	2,578 fps	-
	AR2209	.308"	2.790"	45.0	2,420 fps	-	49.0	2,610 fps	-
	AR2213SC	.308"	2.790"	47.0	2,493 fps	-	51.0	2,659 fps	-
168 GR. SIE HPBT	AR2206H	.308"	3.060"	39.0	2,388 fps	-	41.0	2,432 fps	-
	AR2209	.308"	3.060"	44.0	2,379 fps	-	48.0	2,524 fps	-
	AR2213SC	.308"	3.060"	45.0	2,477 fps	-	49.0	2,578 fps	-
180 GR. HDY SP	AR2206H	.308"	2.900"	37.0	2,201 fps	-	39.0	2,296 fps	-
	AR2209	.308"	2.900"	42.0	2,250 fps	-	46.0	2,566 fps	-
	AR2213SC	.308"	2.900"	43.0	2,304 fps	-	47.0	2,424 fps	-
300 Savage				Case: Remington Twist: 1:12" Primer: Remington 9 1/2			Barrel length: 22" Trim length: 1.861"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
100 GR. SPR RN SP	AR2207	.308"	2.475"	34.0	2,914 fps	-	37.0	3,103 fps	-
	AR2206H	.308"	2.475"	41.0	2,819 fps	-	43.0	3,002 fps	-
110 GR. HDY SP	AR2207	.308"	2.450"	34.0	2,742 fps	-	37.0	2,978 fps	-
	AR2206H	.308"	2.450"	39.5	2,669 fps	-	43.0	2,944 fps	-
130 GR. HDY SP	AR2207	.308"	2.520"	33.0	2,624 fps	-	36.0	2,837 fps	-
	AR2206H	.308"	2.520"	39.5	2,324 fps	-	43.0	2,698 fps	-
150 GR. NOS PART	AR2206H	.308"	2.520"	37.0	2,187 fps	-	40.0	2,408 fps	-
165 GR. SIE SPBT	AR2206H	.308"	2.600"	35.0	2,164 fps	-	38.0	2,341 fps	-

C = Compressed Load: L = Lead Projectile

RIFLE DATA

300 Savage				Case: Remington Twist: 1:12" Primer: Remington 9 1/2			Barrel length: 22" Trim length: 1.861"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. HDY SP	AR2206H	.308"	2.600"	34.0	2,081 fps	-	37.0	2,130 fps	-
200 GR. SPR SP	AR2206H	.308"	2.550"	32.0	1,973 fps	-	35.0	2,089 fps	-
307 Winchester				Case: Winchester Twist: 1:12" Primer: Winchester LR			Barrel length: 20" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. SPR HP	AR2219	.308"	2.390"	41.0	2,814 fps	-	44.0	3,000 fps	-
110 GR.	AR2206	-	-	41.0	2,730 fps	-	44.5	2,965 fps	-
110 GR. SPR HP	AR2206H	.308"	2.390"	42.0	2,724 fps	-	45.0	2,930 fps	-
	AR2209	.308"	2.390"	47.0	2,320 fps	-	50.0	2,589 fps	-
	AR2213SC	.308"	2.390"	48.0	2,340 fps	-	50.0	2,451 fps	-
125 GR. SPR FP	AR2219	.308"	2.520"	39.0	2,481 fps	-	42.0	2,669 fps	-
125 GR.	AR2206	-	-	39.0	2,500 fps	-	42.5	2,725 fps	-
125 GR. SPR FP	AR2206H	.308"	2.520"	40.0	2,540 fps	-	43.0	2,762 fps	-
	AR2209	.308"	2.520"	47.0	2,380 fps	-	50.0	2,522 fps	-
	AR2213SC	.308"	2.520"	48.0	2,269 fps	-	50.0	2,400 fps	-
150 GR. HDY RN	AR2219	.308"	2.520"	38.0	2,319 fps	-	41.0	2,513 fps	-
150 GR.	AR2206	-	-	38.5	2,370 fps	-	41.5	2,555 fps	-
150 GR. HDY RN	AR2206H	.308"	2.520"	39.0	2,402 fps	-	42.0	2,604 fps	-
	AR2209	.308"	2.520"	46.0	2,292 fps	-	48.0	2,453 fps	-
	AR2213SC	.308"	2.520"	47.0	2,154 fps	-	49.0	2,349 fps	-
170 GR. HDY FP	AR2219	.308"	2.520"	35.0	2,234 fps	-	38.0	2,418 fps	-
170 GR.	AR2206	-	-	35.5	2,185 fps	-	39.0	2,400 fps	-
170 GR. HDY FP	AR2206H	.308"	2.520"	37.0	2,314 fps	-	40.0	2,474 fps	-
	AR2209	.308"	2.520"	45.0	2,210 fps	-	47.0	2,380 fps	-
180 GR. HDY RN	AR2219	.308"	2.730"	34.0	2,169 fps	-	37.0	2,359 fps	-
	AR2206H	.308"	2.730"	36.0	2,227 fps	-	39.0	2,373 fps	-
	AR2209	.308"	2.730"	45.0	2,290 fps	-	47.0	2,416 fps	-
308 Marlin Express				Case: Hornady Twist: 1:12" Primer: Winchester LR			Barrel length: 24" Trim length: 1.910"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR. SIE HP FN	AR2219	.308"	2.300"	34.0	2,555 fps	41,400 PSI	37.0	2,704 fps	46,200 PSI
	Bench Mark 2	.308"	2.300"	34.0	2,504 fps	39,500 PSI	37.6	2,680 fps	45,200 PSI
	Bench Mark 8208	.308"	2.300"	37.0	2,682 fps	39,200 PSI	41.0	2,868 fps	44,900 PSI
	AR2206H	.308"	2.300"	38.0	2,527 fps	35,900 PSI	42.0	2,788 fps	45,000 PSI
	AR2208	.308"	2.300"	39.0	2,525 fps	37,500 PSI	42.3C	2,700 fps	42,800 PSI
130 GR. SPR FP	AR2219	.308"	2.420"	32.0	2,388 fps	36,500 PSI	35.3	2,617 fps	45,800 PSI
	Bench Mark 2	.308"	2.420"	33.0	2,428 fps	38,800 PSI	36.5	2,635 fps	46,300 PSI
	Bench Mark 8208	.308"	2.420"	36.0	2,627 fps	40,700 PSI	40.0	2,808 fps	45,700 PSI
	AR2206H	.308"	2.420"	38.0	2,551 fps	38,600 PSI	41.7	2,762 fps	46,000 PSI
	AR2208	.308"	2.420"	39.0	2,502 fps	37,500 PSI	42.5	2,730 fps	46,400 PSI

RIFLE DATA

308 Marlin Express				Case: Homady Twist: 1:12" Primer: Winchester LR			Barrel length: 24" Trim length: 1.910"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
150 GR. BAR TSX FN	Bench Mark 8208	.308"	2.350"	34.0	2,403 fps	40,700 PSI	37.4C	2,558 fps	46,100 PSI
	AR2206H	.308"	2.350"	35.0	2,279 fps	38,800 PSI	38.3C	2,498 fps	46,800 PSI
	AR2208	.308"	2.350"	36.0	2,268 fps	39,500 PSI	39.5C	2,458 fps	46,500 PSI
150 GR. HDY RN	Bench Mark 8208	.308"	2.430"	36.0	2,537 fps	42,600 PSI	39.5	2,665 fps	46,300 PSI
	AR2206H	.308"	2.430"	37.0	2,443 fps	40,000 PSI	40.5	2,607 fps	45,900 PSI
	AR2208	.308"	2.430"	38.0	2,405 fps	39,100 PSI	41.5C	2,572 fps	46,100 PSI
160 GR. HDY FTX ME	Bench Mark 8208	.308"	2.590"	35.0	2,456 fps	42,500 PSI	37.8	2,570 fps	46,700 PSI
	AR2206H	.308"	2.590"	34.8	2,442 fps	40,900 PSI	37.0	2,555 fps	46,800 PSI
	AR2208	.308"	2.590"	36.4	2,361 fps	38,900 PSI	39.6C	2,547 fps	46,800 PSI
170 GR. HDY FP	Bench Mark 8208	.308"	2.400"	33.0	2,288 fps	38,300 PSI	37.0	2,473 fps	46,600 PSI
	AR2206H	.308"	2.400"	35.0	2,289 fps	41,000 PSI	38.6C	2,439 fps	46,300 PSI
	AR2208	.308"	2.400"	36.0	2,255 fps	40,500 PSI	39.3C	2,394 fps	46,300 PSI

30 TC				Case: Homady Twist: 1:12" Primer: Winchester LR			Barrel length: 24" Trim length: 1.910"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR. NOS BT	AR2207	.308"	2.640"	34.0	2,800 fps	46,500 PSI	38.4	3,032 fps	58,500 PSI
	AR2219	.308"	2.640"	40.0	2,925 fps	52,000 PSI	44.8	3,137 fps	60,600 PSI
	Bench Mark 2	.308"	2.640"	41.0	2,860 fps	43,500 PSI	46.0	3,149 fps	59,300 PSI
	AR2206H	.308"	2.640"	43.0	2,895 fps	42,700 PSI	47.8C	3,177 fps	57,700 PSI
130 GR. BAR TSX BT	AR2219	.308"	2.640"	40.0	2,869 fps	49,500 PSI	44.5	3,089 fps	60,100 PSI
	Bench Mark 2	.308"	2.640"	41.0	2,841 fps	44,800 PSI	45.7C	3,104 fps	59,600 PSI
	AR2206H	.308"	2.640"	43.0	2,875 fps	44,800 PSI	47.5C	3,133 fps	59,200 PSI
	AR2208	.308"	2.640"	44.0	2,839 fps	45,200 PSI	48.0C	3,051 fps	55,900 PSI
135 GR. SIE HPBT	AR2219	.308"	2.640"	39.0	2,816 fps	50,100 PSI	43.0	3,002 fps	59,300 PSI
	Bench Mark 2	.308"	2.640"	40.0	2,758 fps	42,200 PSI	45.0C	3,057 fps	59,900 PSI
	Bench Mark 8208	.308"	2.640"	42.0	2,893 fps	46,500 PSI	45.3	3,095 fps	59,700 PSI
	AR2206H	.308"	2.640"	42.0	2,800 fps	42,900 PSI	47.3C	3,106 fps	59,300 PSI
	AR2208	.308"	2.640"	44.0	2,814 fps	45,600 PSI	49.0C	3,081 fps	60,200 PSI
150 GR. HDY IB	AR2219	.308"	2.640"	38.0	2,683 fps	53,600 PSI	42.5C	2,857 fps	60,700 PSI
	Bench Mark 2	.308"	2.640"	38.0	2,596 fps	45,700 PSI	42.5C	2,831 fps	59,400 PSI
	Bench Mark 8208	.308"	2.640"	39.0	2,646 fps	43,400 PSI	43.7	2,915 fps	60,000 PSI
	AR2206H	.308"	2.640"	41.0	2,652 fps	44,300 PSI	45.5C	2,901 fps	58,900 PSI
	AR2208	.308"	2.640"	42.0	2,631 fps	45,700 PSI	45.8C	2,830 fps	56,100 PSI
155 GR. NOS HPBT	AR2219	.308"	2.640"	36.0	2,590 fps	49,400 PSI	40.5	2,780 fps	58,400 PSI
	Bench Mark 2	.308"	2.640"	38.0	2,549 fps	40,800 PSI	42.6	2,834 fps	59,200 PSI
	AR2206H	.308"	2.640"	40.0	2,648 fps	45,500 PSI	44.4C	2,871 fps	58,300 PSI
	AR2208	.308"	2.640"	41.0	2,594 fps	43,700 PSI	46.0C	2,861 fps	59,100 PSI
165 GR. BAR TSX	AR2219	.308"	2.630"	36.0	2,536 fps	54,500 PSI	40.5C	2,691 fps	59,600 PSI
	Bench Mark 2	.308"	2.630"	38.0	2,486 fps	44,000 PSI	42.0C	2,719 fps	58,800 PSI
	Bench Mark 8208	.308"	2.630"	38.0	2,524 fps	44,600 PSI	42.0C	2,752 fps	58,600 PSI
	AR2206H	.308"	2.630"	39.0	2,491 fps	43,900 PSI	43.4C	2,755 fps	59,700 PSI
	AR2208	.308"	2.630"	40.0	2,465 fps	43,700 PSI	45.0C	2,748 fps	60,500 PSI
168 GR. SIE HPBT	AR2219	.308"	2.640"	36.0	2,528 fps	54,400 PSI	40.2	2,678 fps	60,200 PSI

C = Compressed Load; L = Lead Projectile

RIFLE DATA

30 TC				Case: Homady Twist: 1:12" Primer: Winchester LR			Barrel length: 24" Trim length: 1.910"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Gr.	Velocity	Pressure	Gr.	Velocity	Pressure
	Bench Mark 2	.308"	2.640"	38.0	2,494 fps	44,200 PSI	41.9	2,716 fps	59,700 PSI
	AR2206H	.308"	2.640"	39.0	2,514 fps	45,100 PSI	43.5	2,744 fps	58,400 PSI
	AR2208	.308"	2.640"	40.0	2,476 fps	42,800 PSI	45.2C	2,748 fps	59,100 PSI
180 GR. HDY SP	Bench Mark 2	.308"	2.640"	37.0	2,353 fps	45,600 PSI	41.0	2,565 fps	59,300 PSI
	Bench Mark 8208	.308"	2.640"	37.0	2,416 fps	49,000 PSI	41.5C	2,620 fps	59,900 PSI
	AR2206H	.308"	2.640"	38.0	2,379 fps	47,200 PSI	42.5C	2,596 fps	59,400 PSI
	AR2208	.308"	2.640"	39.0	2,345 fps	45,600 PSI	43.8C	2,579 fps	59,100 PSI
308 Winchester				Case: Winchester Twist: 1:12" Primer: Federal 210M			Barrel length: 24" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Gr.	Velocity	Pressure	Gr.	Velocity	Pressure
110 GR. BAR TSX FB	AR2207	.308"	2.690"	39.9	3,124 fps	48,800 PSI	42.5	3,278 fps	58,700 PSI
	AR2219	.308"	2.690"	46.1	3,139 fps	48,100 PSI	49.0C	3,334 fps	59,000 PSI
	Bench Mark 2	.308"	2.690"	45.2	3,005 fps	39,700 PSI	50.2C	3,316 fps	54,200 PSI
	Bench Mark 8208	.308"	2.690"	45.5	2,975 fps	37,700 PSI	50.0C	3,266 fps	50,000 PSI
	AR2206H	.308"	2.690"	46.1	3,055 fps	40,300 PSI	49.0C	3,212 fps	46,200 PSI
125 GR. SFIRE	AR2219	.308"	2.700"	38.0	2,760 fps	43,500 PSI	42.5C	2,985 fps	52,800 PSI
	Bench Mark 2	.308"	2.700"	40.0	2,736 fps	38,200 PSI	44.5C	3,019 fps	52,000 PSI
	Bench Mark 8208	.308"	2.700"	42.0	2,830 fps	41,200 PSI	46.5C	3,110 fps	54,100 PSI
	AR2206H	.308"	2.700"	42.0	2,796 fps	39,500 PSI	46.0C	3,034 fps	49,600 PSI
125 GR. SIE SP	AR2207	.308"	2.700"	36.0	2,841 fps	46,600 CUP	39.5	2,988 fps	49,800 CUP
	AR2219	.308"	2.700"	42.0	2,888 fps	43,400 CUP	45.0	3,052 fps	51,400 CUP
	Bench Mark 2	.308"	2.700"	43.0	2,821 fps	40,600 CUP	47.5	3,070 fps	50,700 CUP
	Bench Mark 8208	.308"	2.700"	46.0	3,000 fps	50,200 PSI	49.2C	3,174 fps	60,100 PSI
	AR2206H	.308"	2.700"	45.0	2,891 fps	36,800 CUP	49.0C	3,127 fps	48,400 CUP
	AR2208	.308"	2.700"	48.0	3,049 fps	42,400 CUP	50.0C	3,135 fps	45,700 CUP
130 GR. SPR HP	AR2207	.308"	2.615"	35.0	2,745 fps	44,700 CUP	37.0	2,837 fps	49,700 CUP
	AR2219	.308"	2.615"	40.0	2,754 fps	41,200 CUP	43.0	2,924 fps	49,800 CUP
	Bench Mark 2	.308"	2.615"	41.0	2,704 fps	38,800 CUP	46.0	2,985 fps	50,100 CUP
	Bench Mark 8208	.308"	2.615"	43.0	2,834 fps	46,900 PSI	48.0C	3,110 fps	62,100 PSI
130 GR.	AR2206	-	-	43.0	2,740 fps	-	47.5C	3,025 fps	-
130 GR. SPR HP	AR2206H	.308"	2.615"	45.0	2,903 fps	41,800 CUP	49.0C	3,099 fps	50,100 CUP
	AR2208	.308"	2.615"	47.0	2,975 fps	42,900 CUP	50.0C	3,130 fps	50,400 CUP
144 GR.	AR2206	-	-	40.5	2,600 fps	-	45.0	2,890 fps	-
150 GR. NOS E-TIP	Bench Mark 2	.308"	2.800"	39.9	2,629 fps	47,300 PSI	43.0	2,819 fps	59,600 PSI
	Bench Mark 8208	.308"	2.800"	40.8	2,659 fps	45,900 PSI	44.3	2,889 fps	60,000 PSI
	AR2206H	.308"	2.800"	41.5	2,677 fps	48,700 PSI	45.6	2,893 fps	60,500 PSI
	AR2208	.308"	2.800"	42.3	2,670 fps	46,700 PSI	46.5C	2,914 fps	60,400 PSI
150 GR. NOS BT	Trail Boss	.308"	2.800"	10.0	1,176 fps	25,800 PSI	14.0	1,417 fps	27,100 PSI
	AR2219	.308"	2.800"	37.0	2,508 fps	39,100 CUP	40.0	2,702 fps	50,500 CUP
	Bench Mark 2	.308"	2.800"	39.0	2,521 fps	38,800 CUP	43.0	2,752 fps	49,900 CUP
	Bench Mark 8208	.308"	2.800"	40.0	2,604 fps	45,500 PSI	44.5C	2,870 fps	60,800 PSI
	AR2206H	.308"	2.800"	43.0	2,742 fps	43,200 CUP	45.5	2,870 fps	51,000 CUP
	AR2208	.308"	2.800"	44.0	2,788 fps	43,300 CUP	47.0C	2,937 fps	50,300 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

308 Winchester				Case: Winchester			Barrel length: 24"		
				Twist: 1:12"			Trim length: 2.005"		
				Primer: Federal 210M					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
155 GR. SIE HPBT	AR2219	.308"	2.775"	38.0	2,588 fps	42,400 CUP	41.0	2,710 fps	49,400 CUP
	Bench Mark 2	.308"	2.775"	39.0	2,538 fps	41,900 CUP	43.0	2,753 fps	50,200 CUP
	Bench Mark 8208	.308"	2.775"	41.0	2,619 fps	47,300 PSI	45.3	2,854 fps	60,900 PSI
155 GR.	AR2206	-	-	40.0	2,540 fps	-	44.5	2,825 fps	-
155 GR. SIE HPBT	AR2206H	.308"	2.775"	43.0	2,735 fps	42,000 CUP	46.0	2,873 fps	49,700 CUP
	AR2208	.308"	2.775"	44.0	2,759 fps	41,300 CUP	47.0C	2,909 fps	49,400 CUP
165 GR. HDY SP	Bench Mark 2	.308"	2.750"	38.5	2,438 fps	40,200 CUP	42.5	2,647 fps	50,500 CUP
	Bench Mark 8208	.308"	2.750"	38.5	2,491 fps	49,100 PSI	42.8	2,691 fps	60,200 PSI
	AR2206H	.308"	2.750"	41.0	2,525 fps	38,600 CUP	43.5	2,694 fps	50,000 CUP
	AR2208	.308"	2.750"	42.0	2,582 fps	40,800 CUP	46.0C	2,773 fps	50,500 CUP
168 GR. BAR TTSX BT	Bench Mark 2	.308"	2.800"	38.0	2,458 fps	44,500 PSI	42.0C	2,686 fps	59,500 PSI
	Bench Mark 8208	.308"	2.800"	39.0	2,505 fps	46,500 PSI	43.0C	2,724 fps	60,700 PSI
	AR2206H	.308"	2.800"	39.0	2,497 fps	45,100 PSI	43.0C	2,727 fps	59,900 PSI
	AR2208	.308"	2.800"	41.0	2,514 fps	46,100 PSI	45.0C	2,737 fps	60,000 PSI
168 GR. SIE HPBT	AS30N	.308"	2.800"	-	-	-	8.0	1,060 fps	26,800 CUP
	Bench Mark 2	.308"	2.800"	38.0	2,416 fps	38,100 CUP	42.0	2,630 fps	49,300 CUP
	Bench Mark 8208	.308"	2.800"	39.0	2,493 fps	49,000 PSI	43.3	2,707 fps	61,500 PSI
168 GR.	AR2206	-	-	39.5	2,445 fps	-	43.7	2,705 fps	-
168 GR. SIE HPBT	AR2206H	.308"	2.800"	41.0	2,551 fps	38,300 CUP	43.5	2,703 fps	49,500 CUP
	AR2208	.308"	2.800"	42.0	2,520 fps	41,200 CUP	46.0C	2,731 fps	50,600 CUP
175 GR. SIE HPBT	Bench Mark 2	.308"	2.800"	38.0	2,400 fps	40,100 CUP	41.5	2,590 fps	50,800 CUP
	Bench Mark 8208	.308"	2.800"	39.0	2,511 fps	52,200 PSI	42.5	2,664 fps	61,800 PSI
175 GR.	AR2206	-	-	38.0	2,370 fps	-	41.5	2,590 fps	-
175 GR. SIE HPBT	AR2206H	.308"	2.800"	40.0	2,489 fps	39,100 CUP	42.7	2,647 fps	49,000 CUP
	AR2208	.308"	2.800"	42.0	2,583 fps	42,600 CUP	45.0C	2,690 fps	48,600 CUP
180 GR. SPR SP	Bench Mark 2	.308"	2.800"	38.0	2,363 fps	40,700 CUP	41.3	2,542 fps	50,800 CUP
	Bench Mark 8208	.308"	2.800"	36.0	2,340 fps	51,600 PSI	40.0	2,497 fps	60,100 PSI
	AR2206H	.308"	2.800"	40.0	2,454 fps	41,200 CUP	42.5	2,595 fps	49,700 CUP
	AR2208	.308"	2.800"	41.0	2,470 fps	41,200 CUP	45.0C	2,661 fps	49,600 CUP
190 GR. HDY BTSP	Bench Mark 2	.308"	2.740"	37.0	2,288 fps	41,100 CUP	39.5	2,418 fps	48,500 CUP
	Bench Mark 8208	.308"	2.740"	36.0	2,303 fps	51,700 PSI	40.0	2,459 fps	59,800 PSI
	AR2206H	.308"	2.740"	39.0	2,359 fps	40,400 CUP	42.0	2,514 fps	49,500 CUP
	AR2208	.308"	2.740"	41.0	2,452 fps	46,100 CUP	44.0C	2,536 fps	49,100 CUP
200 GR. SFT SP	Bench Mark 2	.308"	2.700"	37.5	2,227 fps	43,000 CUP	40.0	2,355 fps	50,100 CUP
	Bench Mark 8208	.308"	2.700"	35.5	2,250 fps	51,900 PSI	39.5	2,400 fps	59,900 PSI
	AR2206H	.308"	2.700"	38.0	2,256 fps	42,400 CUP	41.0C	2,403 fps	49,400 CUP
	AR2208	.308"	2.700"	39.0	2,288 fps	43,100 CUP	42.0C	2,441 fps	50,100 CUP
208 GR. HDY A-MAX	Bench Mark 2	.308"	2.820"	35.2	2,207 fps	51,000 PSI	38.3	2,346 fps	59,300 PSI
	Bench Mark 8208	.308"	2.820"	36.4	2,219 fps	48,100 PSI	39.2	2,373 fps	59,300 PSI
	AR2206H	.308"	2.820"	35.6	2,218 fps	49,900 PSI	38.8C	2,359 fps	58,600 PSI
	AR2208	.308"	2.820"	38.1	2,260 fps	49,400 PSI	41.5C	2,420 fps	59,500 PSI

RIFLE DATA

7.62 x 54R				Case: Norma Twist: 1:10" Primer: Federal 210M			Barrel length: 24" Trim length: 2.104"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. HDY SP	Bench Mark 2	.308"	2.715"	47.0	3,060 fps	39,700 CUP	50.5	3,213 fps	44,900 CUP
	AR2206H	.308"	2.715"	51.0	3,150 fps	35,500 CUP	55.0C	3,345 fps	43,400 CUP
	AR2208	.308"	2.715"	51.0	3,016 fps	34,700 CUP	55.0C	3,200 fps	39,900 CUP
125 GR. SIE SP	AR2206H	.308"	2.715"	50.0	3,036 fps	36,700 CUP	54.0C	3,236 fps	45,700 CUP
	AR2208	.308"	2.715"	51.0	2,967 fps	37,400 CUP	55.0C	3,139 fps	45,700 CUP
150 GR. NOS BT	AR2206H	.308"	2.875"	46.0	2,769 fps	38,000 CUP	49.5C	2,938 fps	46,300 CUP
	AR2208	.308"	2.875"	47.0	2,721 fps	38,000 CUP	50.5	2,985 fps	46,400 CUP
165 GR. BAR XBTC	AR2206H	.308"	2.950"	44.0	2,633 fps	40,200 CUP	47.0	2,761 fps	45,800 CUP
	AR2208	.308"	2.950"	45.0	2,581 fps	39,800 CUP	48.3	2,727 fps	46,000 CUP
	AR2209	.308"	2.950"	52.0	2,608 fps	36,300 CUP	55.0C	2,740 fps	41,500 CUP
180 GR. SFT SCIR	AR2206H	.308"	2.975"	42.0	2,482 fps	40,900 CUP	45.4C	2,618 fps	45,800 CUP
	AR2208	.308"	2.975"	43.0	2,409 fps	38,400 CUP	46.5C	2,575 fps	45,900 CUP
	AR2209	.308"	2.975"	51.0	2,493 fps	37,600 CUP	55.0C	2,692 fps	44,700 CUP
	AR2213SC	.308"	2.975"	51.0	2,281 fps	31,900 CUP	55.0C	2,484 fps	39,200 CUP
200 GR. SPR SP	AR2206H	.308"	2.950"	39.0	2,271 fps	41,400 CUP	42.2	2,411 fps	46,400 CUP
	AR2208	.308"	2.950"	41.0	2,304 fps	41,500 CUP	44.0	2,412 fps	46,000 CUP
	AR2209	.308"	2.950"	48.0	2,329 fps	37,400 CUP	52.0	2,529 fps	46,500 CUP
	AR2213SC	.308"	2.950"	52.0	2,348 fps	41,100 CUP	55.0C	2,468 fps	45,700 CUP
220 GR. HDY JRN	AR2206H	.308"	2.830"	38.0	2,143 fps	41,200 CUP	41.0	2,263 fps	46,600 CUP
	AR2208	.308"	2.830"	40.0	2,178 fps	42,300 CUP	42.5	2,269 fps	46,000 CUP
	AR2209	.308"	2.830"	47.0	2,227 fps	37,600 CUP	50.5C	2,396 fps	45,900 CUP
	AR2213SC	.308"	2.830"	50.0	2,209 fps	39,100 CUP	54.0C	2,381 fps	46,000 CUP

30-06 Springfield				Case: Winchester Twist: 1:10" Primer: Winchester LR			Barrel length: 24" Trim length: 2.484"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. HDY SP	Bench Mark 2	.308"	3.170"	51.5	3,242 fps	45,600 CUP	55.0	3,396 fps	49,800 CUP
	Bench Mark 8208	.308"	3.170"	52.6	3,223 fps	46,200 PSI	56.0	3,415 fps	57,500 PSI
	AR2206H	.308"	3.170"	51.0	3,155 fps	39,000 CUP	57.0	3,431 fps	49,300 CUP
	AR2208	.308"	3.170"	55.0	3,308 fps	44,400 CUP	59.0	3,452 fps	48,500 CUP
125 GR. SIE SP	Bench Mark 2	.308"	3.150"	49.0	2,996 fps	40,700 CUP	52.0	3,178 fps	48,700 CUP
	Bench Mark 8208	.308"	3.150"	51.5	3,100 fps	50,400 PSI	54.7	3,243 fps	57,400 PSI
	AR2206H	.308"	3.150"	48.0	2,977 fps	41,400 CUP	53.7	3,229 fps	49,300 CUP
	AR2208	.308"	3.150"	54.0	3,159 fps	45,500 CUP	57.2	3,267 fps	49,500 CUP
130 GR. SPR HP	Bench Mark 2	.308"	3.060"	48.0	2,986 fps	44,900 CUP	51.0	3,107 fps	48,700 CUP
	Bench Mark 8208	.308"	3.060"	49.1	3,021 fps	52,100 PSI	51.7	3,126 fps	56,900 PSI
	AR2206H	.308"	3.060"	48.0	2,927 fps	38,600 CUP	53.1	3,144 fps	46,100 CUP
	AR2208	.308"	3.060"	49.0	2,979 fps	41,300 CUP	53.5	3,154 fps	48,400 CUP
150 GR. NOS E-TIP	Bench Mark 2	.308"	3.300"	44.0	2,631 fps	46,400 PSI	48.0	2,850 fps	58,600 PSI
	Bench Mark 8208	.308"	3.300"	44.0	2,677 fps	50,100 PSI	47.7	2,838 fps	58,500 PSI
	AR2206H	.308"	3.300"	43.0	2,658 fps	49,000 PSI	47.5	2,863 fps	59,700 PSI
	AR2208	.308"	3.300"	46.0	2,697 fps	49,900 PSI	49.5	2,860 fps	58,000 PSI
	AR2209	.308"	3.300"	54.0	2,747 fps	47,000 PSI	57.8C	2,927 fps	57,700 PSI
150 GR. NOS BT	Trail Boss	.308"	3.250"	13.3	1,061 fps	14,700 PSI	19.0	1,477 fps	26,400 PSI

C = Compressed Load: L = Lead Projectile

RIFLE DATA

30-06 Springfield				Case: Winchester			Barrel length: 24"		
				Twist: 1:10"			Trim length: 2.484"		
				Primer: Winchester LR					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	Bench Mark 2	.308"	3.250"	46.5	2,792 fps	44,600 CUP	49.5	2,944 fps	49,300 CUP
	Bench Mark 8208	.308"	3.250"	47.0	2,797 fps	50,500 PSI	50.0	2,935 fps	58,400 PSI
	AR2206H	.308"	3.250"	46.0	2,806 fps	44,400 CUP	51.0	2,976 fps	48,500 CUP
	AR2208	.308"	3.250"	47.0	2,808 fps	42,600 CUP	51.0	2,975 fps	50,000 CUP
	AR2209	.308"	3.250"	56.0	2,792 fps	37,100 CUP	62.0C	3,068 fps	48,400 CUP
155 GR. SIE HPBT	Bench Mark 2	.308"	3.225"	46.5	2,779 fps	40,500 CUP	49.5	2,916 fps	49,400 CUP
	Bench Mark 8208	.308"	3.225"	46.1	2,747 fps	50,400 PSI	49.0	2,869 fps	57,500 PSI
	AR2206H	.308"	3.225"	46.0	2,752 fps	41,200 CUP	51.0	2,925 fps	45,600 CUP
	AR2208	.308"	3.225"	48.0	2,822 fps	44,600 CUP	50.7	2,958 fps	48,800 CUP
	AR2209	.308"	3.225"	56.0	2,757 fps	36,000 CUP	62.0C	3,038 fps	47,500 CUP
165 GR. SIE SPBT	Bench Mark 2	.308"	3.300"	45.0	2,686 fps	45,600 CUP	47.7	2,795 fps	49,300 CUP
165 GR. HDY GMX	Bench Mark 8208	.308"	3.225"	43.2	2,572 fps	50,800 PSI	47.0	2,717 fps	58,300 PSI
	AR2206H	.308"	3.225"	43.4	2,595 fps	50,300 PSI	46.7	2,712 fps	57,100 PSI
	AR2208	.308"	3.225"	44.5	2,526 fps	46,600 PSI	48.3	2,724 fps	59,000 PSI
	AR2209	.308"	3.225"	51.0	2,587 fps	48,600 PSI	55.4	2,781 fps	59,200 PSI
165 GR. SIE SPBT	Bench Mark 8208	.308"	3.300"	44.6	2,667 fps	55,100 PSI	46.5	2,728 fps	58,000 PSI
	AR2206H	.308"	3.300"	43.0	2,607 fps	41,100 CUP	47.5	2,782 fps	49,000 CUP
	AR2208	.308"	3.300"	47.0	2,726 fps	44,500 CUP	50.5	2,873 fps	49,700 CUP
	AR2209	.308"	3.300"	53.0	2,678 fps	38,400 CUP	59.0	2,938 fps	49,400 CUP
168 GR. HDY HPBT	Bench Mark 2	.308"	3.230"	44.0	2,614 fps	42,900 CUP	47.2	2,760 fps	49,400 CUP
	Bench Mark 8208	.308"	3.230"	45.1	2,661 fps	54,800 PSI	48.0	2,748 fps	58,700 PSI
	AR2206H	.308"	3.230"	43.0	2,574 fps	41,200 CUP	47.5	2,789 fps	50,000 CUP
	AR2208	.308"	3.230"	47.0	2,710 fps	42,700 CUP	50.5	2,859 fps	49,200 CUP
	AR2209	.308"	3.230"	55.0	2,695 fps	40,400 CUP	59.0	2,897 fps	48,100 CUP
175 GR. SIE HPBT	AR2206H	.308"	3.300"	43.8	2,584 fps	44,100 CUP	46.7	2,700 fps	49,000 CUP
	AR2208	.308"	3.300"	45.0	2,551 fps	41,700 CUP	48.0	2,694 fps	49,000 CUP
	AR2209	.308"	3.300"	55.0	2,661 fps	42,100 CUP	59.0	2,842 fps	48,700 CUP
	AR2213SC	.308"	3.300"	57.0	2,535 fps	38,300 CUP	61.5C	2,719 fps	44,400 CUP
180 GR. SIE SPBT	Bench Mark 2	.308"	3.300"	43.0	2,550 fps	45,600 CUP	46.0	2,660 fps	49,000 CUP
	AR2206H	.308"	3.300"	41.0	2,427 fps	38,100 CUP	46.0	2,638 fps	48,800 CUP
	AR2208	.308"	3.300"	44.0	2,533 fps	41,900 CUP	47.0	2,668 fps	50,000 CUP
	AR2209	.308"	3.300"	52.0	2,543 fps	37,800 CUP	57.5	2,798 fps	49,300 CUP
	AR2213SC	.308"	3.300"	54.0	2,447 fps	34,700 CUP	60.0C	2,710 fps	44,300 CUP
190 GR. HDY BTSP	AR2206H	.308"	3.220"	41.0	2,380 fps	41,400 CUP	45.5	2,525 fps	48,000 CUP
	AR2208	.308"	3.220"	43.5	2,450 fps	41,800 CUP	46.5	2,608 fps	49,700 CUP
	AR2209	.308"	3.220"	51.0	2,451 fps	39,500 CUP	56.5	2,692 fps	49,200 CUP
	AR2213SC	.308"	3.220"	57.0	2,514 fps	44,100 CUP	61.0C	2,668 fps	50,000 CUP
200 GR. NOS AB	AR2206H	.308"	3.300"	41.0	2,355 fps	43,700 CUP	44.0	2,474 fps	49,500 CUP
	AR2208	.308"	3.300"	42.0	2,337 fps	41,900 CUP	47.0	2,505 fps	49,100 CUP
	AR2209	.308"	3.300"	50.0	2,412 fps	40,400 CUP	53.7	2,580 fps	48,400 CUP
	AR2213SC	.308"	3.300"	55.0	2,427 fps	42,100 CUP	59.0C	2,586 fps	49,300 CUP
	AR2217	.308"	3.300"	57.0	2,329 fps	35,800 CUP	61.0C	2,487 fps	42,200 CUP
200 GR. SPR SP	AR2206H	.308"	3.230"	39.0	2,246 fps	40,700 CUP	43.5	2,421 fps	49,200 CUP
	AR2208	.308"	3.230"	42.5	2,373 fps	44,700 CUP	45.5	2,501 fps	49,600 CUP
	AR2209	.308"	3.230"	50.0	2,431 fps	44,500 CUP	53.0	2,544 fps	49,100 CUP

RIFLE DATA

30-06 Springfield				Case: Winchester Twist: 1:10" Primer: Winchester LR			Barrel length: 24" Trim length: 2.484"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2213SC	.308"	3.230"	54.0	2,436 fps	43,200 CUP	57.5C	2,577 fps	49,400 CUP
	AR2217	.308"	3.230"	55.0	2,267 fps	33,600 CUP	61.0C	2,510 fps	44,400 CUP
208 GR. HDY A-MAX	AR2206H	.308"	3.285"	38.9	2,203 fps	48,700 PSI	43.2	2,362 fps	57,400 PSI
	AR2208	.308"	3.285"	40.9	2,226 fps	47,900 PSI	45.0	2,415 fps	59,200 PSI
	AR2209	.308"	3.285"	47.6	2,303 fps	47,600 PSI	52.4	2,499 fps	59,600 PSI
	AR2213SC	.308"	3.285"	52.1	2,301 fps	47,100 PSI	58.0C	2,511 fps	58,700 PSI
220 GR. HDY JRN	AR2208	.308"	3.230"	42.0	2,279 fps	44,000 CUP	45.0	2,382 fps	49,400 CUP
	AR2209	.308"	3.230"	50.0	2,318 fps	43,400 CUP	53.0	2,435 fps	49,200 CUP
	AR2213SC	.308"	3.230"	54.0	2,342 fps	43,300 CUP	57.5C	2,458 fps	48,600 CUP
	AR2217	.308"	3.230"	58.0	2,293 fps	36,500 CUP	61.0C	2,412 fps	43,600 CUP
30-06 Improved				Case: Twist: - Primer:			Barrel length: 24" Trim length: -		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
130 GR.	AR2209	-	-	-	-	-	65.0	3,250 fps	-
150 GR.	AR2209	-	-	-	-	-	62.5	3,100 fps	-
165 GR.	AR2209	-	-	-	-	-	59.5	3,000 fps	-
180 GR.	AR2209	-	-	-	-	-	58.0	2,900 fps	-
200 GR.	AR2209	-	-	-	-	-	56.0	2,750 fps	-
300 H & H Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LR			Barrel length: 24" Trim length: 2.840"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
130 GR. SPR HP	AR2209	.308"	3.440"	68.0	3,142 fps	-	72.0	3,394 fps	-
	AR2213SC	.308"	3.440"	75.0	3,186 fps	-	81.0	3,362 fps	-
150 GR. HDY SP	AR2209	.308"	3.560"	67.0	2,998 fps	-	71.0	3,202 fps	-
	AR2213SC	.308"	3.560"	72.0	3,096 fps	-	78.0	3,313 fps	-
165 GR. NOS PART	AR2209	.308"	3.560"	66.0	3,018 fps	-	69.0	3,164 fps	-
	AR2213SC	.308"	3.560"	71.0	2,949 fps	-	77.0	3,099 fps	-
200 GR. SIE HPBT	AR2209	.308"	3.655"	62.0	2,747 fps	-	66.0	2,909 fps	-
	AR2213SC	.308"	3.655"	67.0	2,737 fps	-	72.0	2,932 fps	-
220 GR. HDY RN	AR2209	.308"	3.580"	60.0	2,595 fps	-	64.0	2,717 fps	-
	AR2213SC	.308"	3.580"	65.0	2,655 fps	-	70.0	2,714 fps	-
250 GR. BAR RN	AR2209	.308"	3.580"	59.0	2,344 fps	-	62.0	2,493 fps	-
	AR2213SC	.308"	3.580"	63.0	2,372 fps	-	67.0	2,563 fps	-

RIFLE DATA

308 Norma Magnum				Case: Norma			Barrel length: 26"		
				Twist: 1:10"			Trim length: 2.550"		
				Primer: CCI 250					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
100 GR. SPR RN SP	AR2206H	.308"	2.870"	-	-	-	52.0	2,997 fps	-
110 GR. SIE HP	AR2206H	.308"	3.160"	59.0	3,339 fps	41,400 CUP	64.0	3,554 fps	53,000 CUP
	AR2209	.308"	3.160"	72.0	3,202 fps	39,400 CUP	77.0	3,506 fps	51,200 CUP
	AR2213SC	.308"	3.160"	73.0	3,229 fps	37,800 CUP	80.0	3,563 fps	50,100 CUP
130 GR. HDY SP	AR2206H	.308"	3.275"	59.0	3,166 fps	42,600 CUP	64.0	3,388 fps	50,500 CUP
	AR2209	.308"	3.275"	71.0	3,139 fps	42,400 CUP	74.0	3,292 fps	51,400 CUP
	AR2213SC	.308"	3.275"	73.0	3,201 fps	40,800 CUP	79.0	3,302 fps	45,900 CUP
	AR2217	.308"	3.275"	80.0	3,211 fps	44,400 CUP	84.0	3,333 fps	46,400 CUP
150 GR. NOS PART	AR2206H	.308"	3.300"	57.0	2,940 fps	42,000 CUP	62.0	3,192 fps	54,700 CUP
	AR2209	.308"	3.300"	69.0	2,914 fps	43,100 CUP	73.0	3,188 fps	51,200 CUP
	AR2213SC	.308"	3.300"	70.0	3,157 fps	47,800 CUP	76.0	3,258 fps	51,900 CUP
	AR2217	.308"	3.300"	79.0	3,090 fps	46,600 CUP	83.0	3,279 fps	50,800 CUP
168 GR. SIE HPBT	AR2206H	.308"	3.250"	56.0	2,859 fps	48,200 CUP	61.0	3,059 fps	52,100 CUP
	AR2209	.308"	3.250"	68.0	2,880 fps	42,000 CUP	72.0	3,114 fps	51,000 CUP
	AR2213SC	.308"	3.250"	69.0	2,944 fps	43,800 CUP	75.0	3,140 fps	52,300 CUP
	AR2217	.308"	3.250"	75.0	2,939 fps	47,100 CUP	79.0	3,123 fps	52,000 CUP
180 GR. HDY SP	AR2206H	.308"	3.345"	54.0	2,732 fps	48,200 CUP	59.0	2,898 fps	53,400 CUP
	AR2209	.308"	3.345"	65.0	2,770 fps	43,000 CUP	69.0	2,999 fps	52,800 CUP
	AR2213SC	.308"	3.345"	67.0	2,865 fps	43,200 CUP	73.0	3,022 fps	52,300 CUP
	AR2217	.308"	3.345"	72.0	2,769 fps	45,900 CUP	76.0	2,940 fps	51,900 CUP
190 GR. HDY BTSP	AR2217	.308"	3.435"	70.0	2,711 fps	45,500 CUP	74.0	2,891 fps	51,100 CUP
200 GR. NOS PART	AR2209	.308"	3.400"	63.0	2,740 fps	44,700 CUP	67.0	2,851 fps	52,100 CUP
	AR2213SC	.308"	3.400"	64.5	2,662 fps	44,400 CUP	70.0	2,889 fps	52,700 CUP
	AR2217	.308"	3.400"	69.0	2,674 fps	47,400 CUP	73.0	2,859 fps	54,500 CUP
220 GR. HDY RN	AR2209	.308"	3.360"	61.0	2,519 fps	42,200 CUP	65.0	2,707 fps	52,800 CUP
	AR2213SC	.308"	3.360"	63.0	2,437 fps	42,600 CUP	68.0	2,697 fps	52,700 CUP
	AR2217	.308"	3.360"	66.0	2,449 fps	46,000 CUP	70.0	2,672 fps	52,000 CUP

300 Ruger Compact Magnum				Case: Hornady			Barrel length: 24"		
				Twist: 1:10"			Trim length: 2.090"		
				Primer: Winchester LRM					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
135 GR. SIE HPBT	AR2206H	.308"	2.820"	54.0	3,090 fps	50,900 PSI	57.4	3,259 fps	60,000 PSI
	AR2208	.308"	2.820"	55.2	3,064 fps	51,300 PSI	58.7	3,267 fps	63,200 PSI
150 GR. HDY IB	AR2206H	.308"	2.830"	51.7	2,922 fps	52,000 PSI	55.0	3,091 fps	62,500 PSI
	AR2208	.308"	2.830"	53.0	2,918 fps	53,600 PSI	56.4	3,086 fps	62,700 PSI
	AR2209	.308"	2.830"	59.1	2,901 fps	50,300 PSI	63.5C	3,118 fps	61,800 PSI
155 GR. NOS HPBT	AR2206H	.308"	2.830"	52.5	2,929 fps	54,700 PSI	55.0	3,066 fps	62,300 PSI
	AR2208	.308"	2.830"	52.6	2,896 fps	53,800 PSI	56.0	3,041 fps	61,900 PSI
	AR2209	.308"	2.830"	58.6	2,819 fps	47,100 PSI	62.3	3,062 fps	60,800 PSI
165 GR. BAR TSX	AR2206H	.308"	2.800"	49.8	2,785 fps	55,900 PSI	53.0	2,917 fps	62,700 PSI
	AR2208	.308"	2.800"	50.1	2,718 fps	53,100 PSI	54.2	2,908 fps	62,600 PSI
	AR2209	.308"	2.800"	58.8	2,843 fps	55,600 PSI	62.5C	2,979 fps	62,700 PSI
168 GR. SIE HPBT	AR2206H	.308"	2.820"	50.3	2,803 fps	56,600 PSI	53.5	2,907 fps	61,700 PSI
	AR2208	.308"	2.820"	51.0	2,755 fps	52,900 PSI	54.3	2,890 fps	60,500 PSI

C = Compressed Load; L = Lead Projectile

RIFLE DATA

300 Ruger Compact Magnum				Case: Homady Twist: 1:10" Primer: Winchester LRM			Barrel length: 24" Trim length: 2.090"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2209	.308"	2.820"	57.3	2,736 fps	47,900 PSI	61.0	2,947 fps	61,200 PSI
178 GR. HDY A-MAX	AR2206H	.308"	2.840"	48.4	2,685 fps	54,000 PSI	51.5	2,793 fps	61,200 PSI
	AR2208	.308"	2.840"	50.0	2,701 fps	55,500 PSI	53.2	2,820 fps	62,300 PSI
	AR2209	.308"	2.840"	56.9	2,729 fps	53,600 PSI	60.5C	2,886 fps	62,200 PSI
180 GR. HDY SP	AR2206H	.308"	2.820"	47.2	2,575 fps	51,900 PSI	50.2	2,711 fps	60,400 PSI
	AR2208	.308"	2.820"	49.4	2,625 fps	54,800 PSI	52.6	2,755 fps	62,700 PSI
	AR2209	.308"	2.820"	56.4	2,648 fps	50,700 PSI	60.0C	2,826 fps	62,600 PSI
200 GR. SFT AF/SS	AR2206H	.308"	2.775"	45.6	2,440 fps	54,600 PSI	48.5	2,546 fps	61,800 PSI
	AR2208	.308"	2.775"	48.3	2,498 fps	57,200 PSI	51.4	2,586 fps	61,700 PSI
	AR2209	.308"	2.775"	55.2	2,544 fps	53,300 PSI	58.7C	2,710 fps	62,600 PSI
300 Remington S.A. Ultra Mag.				Case: Remington Twist: 1:10" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. SPR SP	AR2206H	.308"	2.600"	58.0	3,431 fps	50,600 PSI	62.0	3,663 fps	63,000 PSI
	AR2208	.308"	2.600"	60.5	3,391 fps	51,100 PSI	64.5	3,619 fps	63,200 PSI
125 GR. NOS BT	AR2206H	.308"	2.825"	58.0	3,341 fps	54,700 PSI	62.0	3,557 fps	64,300 PSI
	AR2208	.308"	2.825"	60.0	3,297 fps	52,700 PSI	64.0	3,511 fps	64,200 PSI
	AR2209	.308"	2.825"	65.0	3,172 fps	47,800 PSI	69.0C	3,374 fps	58,300 PSI
130 GR. HDY SP	AR2206H	.308"	2.750"	55.5	3,182 fps	51,700 PSI	59.0	3,360 fps	62,800 PSI
	AR2208	.308"	2.750"	57.5	3,165 fps	53,600 PSI	61.0	3,330 fps	62,600 PSI
	AR2209	.308"	2.750"	65.0	3,198 fps	54,700 PSI	69.0C	3,359 fps	63,500 PSI
135 GR. SIE SP	AR2206H	.308"	2.750"	55.5	3,166 fps	52,700 PSI	59.0	3,340 fps	62,500 PSI
	AR2208	.308"	2.750"	56.5	3,079 fps	52,000 PSI	60.0	3,272 fps	63,100 PSI
	AR2209	.308"	2.750"	63.0	3,090 fps	51,900 PSI	67.0C	3,283 fps	63,500 PSI
150 GR. SPR GSSP	AR2206H	.308"	2.700"	53.0	3,007 fps	55,900 PSI	57.0	3,147 fps	62,800 PSI
	AR2208	.308"	2.700"	55.0	2,967 fps	52,700 PSI	59.0	3,148 fps	63,200 PSI
	AR2209	.308"	2.700"	62.0	2,985 fps	52,600 PSI	65.5C	3,147 fps	62,100 PSI
155 GR. HDY A-MAX	AR2206H	.308"	2.825"	52.0	2,895 fps	50,800 PSI	55.5	3,064 fps	61,700 PSI
	AR2208	.308"	2.825"	54.5	2,925 fps	53,900 PSI	57.7	3,082 fps	63,200 PSI
	AR2209	.308"	2.825"	60.5	2,900 fps	50,200 PSI	64.5	3,112 fps	63,500 PSI
165 GR. NOS PART	AR2206H	.308"	2.825"	50.5	2,827 fps	56,500 PSI	54.0	2,946 fps	63,000 PSI
	AR2208	.308"	2.825"	53.0	2,833 fps	55,400 PSI	56.5	2,967 fps	63,100 PSI
	AR2209	.308"	2.825"	59.0	2,797 fps	50,200 PSI	63.0	2,997 fps	62,900 PSI
168 GR. SIE HPBT	AR2206H	.308"	2.825"	51.0	2,833 fps	57,000 PSI	54.5	2,948 fps	63,100 PSI
	AR2208	.308"	2.825"	53.5	2,835 fps	55,600 PSI	56.5	2,955 fps	62,700 PSI
	AR2209	.308"	2.825"	58.0	2,771 fps	49,500 PSI	62.5	2,985 fps	63,000 PSI
	AR2213SC	.308"	2.825"	64.0	2,801 fps	53,200 PSI	68.0C	2,950 fps	62,600 PSI
175 GR. SIE HPBT	AR2209	.308"	2.825"	59.0	2,806 fps	54,000 PSI	62.5	2,945 fps	62,700 PSI
	AR2213SC	.308"	2.825"	64.0	2,785 fps	54,800 PSI	68.0C	2,924 fps	62,600 PSI
180 GR. SFT SCIR	AR2206H	.308"	2.825"	48.0	2,693 fps	57,000 PSI	51.5	2,823 fps	64,700 PSI
	AR2208	.308"	2.825"	50.0	2,680 fps	53,600 PSI	54.0	2,842 fps	63,600 PSI
	AR2209	.308"	2.825"	58.0	2,772 fps	55,600 PSI	61.6C	2,907 fps	63,500 PSI
190 GR. SIE HPBT	AR2209	.308"	2.825"	56.0	2,660 fps	52,100 PSI	60.0	2,836 fps	62,900 PSI

C = Compressed Load; L = Lead Projectile

RIFLE DATA

300 Remington S.A. Ultra Mag.				Case: Remington Twist: 1:10" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2213SC	.308"	2.825"	61.0	2,660 fps	54,000 PSI	65.5C	2,811 fps	62,800 PSI
200 GR. NOS PART	AR2209	.308"	2.825"	56.0	2,584 fps	51,600 PSI	59.5C	2,751 fps	63,200 PSI
	AR2213SC	.308"	2.825"	63.0	2,639 fps	55,500 PSI	66.0C	2,755 fps	63,300 PSI
220 GR. HDY RN	AR2209	.308"	2.750"	54.0	2,470 fps	54,200 PSI	58.0	2,608 fps	63,700 PSI
	AR2213SC	.308"	2.750"	60.0	2,497 fps	55,800 PSI	63.5C	2,614 fps	63,500 PSI
300 Winchester Short Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LRM			Barrel length: 24" Trim length: 2.090"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. SPR SP	Bench Mark 8208	.308"	2.650"	60.3	3,555 fps	54,400 PSI	63.5	3,697 fps	62,400 PSI
	AR2206H	.308"	2.650"	60.0	3,495 fps	56,800 PSI	63.5	3,647 fps	63,600 PSI
	AR2208	.308"	2.650"	62.0	3,454 fps	54,300 PSI	66.0	3,631 fps	63,200 PSI
	AR2209	.308"	2.650"	70.0	3,437 fps	53,500 PSI	74.5C	3,646 fps	63,300 PSI
125 GR. NOS BT	Bench Mark 8208	.308"	2.810"	58.3	3,350 fps	53,600 PSI	62.0	3,496 fps	61,700 PSI
	AR2206H	.308"	2.810"	58.0	3,314 fps	56,600 PSI	61.0	3,431 fps	63,000 PSI
	AR2208	.308"	2.810"	61.0	3,312 fps	54,700 PSI	65.0	3,478 fps	63,100 PSI
	AR2209	.308"	2.810"	69.0	3,332 fps	55,800 PSI	73.0	3,481 fps	63,000 PSI
130 GR. HDY SP	Bench Mark 8208	.308"	2.720"	56.4	3,272 fps	56,600 PSI	60.0	3,391 fps	61,900 PSI
	AR2206H	.308"	2.720"	56.0	3,213 fps	55,700 PSI	58.5	3,318 fps	63,000 PSI
	AR2208	.308"	2.720"	60.0	3,269 fps	58,100 PSI	63.5	3,388 fps	63,500 PSI
	AR2209	.308"	2.720"	67.0	3,237 fps	54,900 PSI	71.0	3,393 fps	63,200 PSI
150 GR. SPR GSSP	Trail Boss	.308"	2.780"	16.3	1,473 fps	26,400 PSI	23.3	1,758 fps	31,600 PSI
	Bench Mark 8208	.308"	2.780"	52.6	2,992 fps	55,800 PSI	56.0	3,115 fps	62,300 PSI
	AR2206H	.308"	2.780"	51.0	2,919 fps	53,400 PSI	54.5	3,078 fps	63,100 PSI
	AR2208	.308"	2.780"	55.0	3,008 fps	56,800 PSI	58.5	3,140 fps	63,800 PSI
	AR2209	.308"	2.780"	63.0	3,040 fps	55,700 PSI	67.0	3,187 fps	63,200 PSI
155 GR. HDY A-MAX	Bench Mark 8208	.308"	2.860"	53.0	2,990 fps	56,800 PSI	56.4	3,110 fps	63,400 PSI
	AR2206H	.308"	2.860"	52.0	2,935 fps	55,800 PSI	55.0	3,061 fps	63,600 PSI
	AR2208	.308"	2.860"	55.0	2,963 fps	54,800 PSI	58.5	3,110 fps	63,600 PSI
	AR2209	.308"	2.860"	63.0	3,014 fps	55,300 PSI	66.5	3,156 fps	63,200 PSI
165 GR. HDY GMX	Bench Mark 8208	.308"	2.840"	48.0	2,743 fps	55,600 PSI	52.0	2,887 fps	63,300 PSI
	AR2206H	.308"	2.840"	47.0	2,700 fps	51,900 PSI	51.0	2,887 fps	63,300 PSI
	AR2208	.308"	2.840"	51.0	2,810 fps	56,700 PSI	54.5	2,948 fps	63,600 PSI
	AR2209	.308"	2.840"	58.0	2,821 fps	52,400 PSI	62.0C	2,986 fps	61,300 PSI
165 GR. NOS PART	Bench Mark 8208	.308"	2.860"	51.1	2,849 fps	55,600 PSI	54.4	2,963 fps	61,700 PSI
	AR2206H	.308"	2.860"	51.0	2,810 fps	55,700 PSI	54.0	2,929 fps	63,200 PSI
	AR2208	.308"	2.860"	54.0	2,859 fps	56,400 PSI	57.5	2,987 fps	63,700 PSI
	AR2209	.308"	2.860"	61.0	2,898 fps	54,800 PSI	65.5	3,047 fps	63,600 PSI
168 GR. SIE HPBT	Bench Mark 8208	.308"	2.840"	51.5	2,853 fps	56,400 PSI	54.8	2,970 fps	63,400 PSI
	AR2209	.308"	2.840"	61.0	2,908 fps	56,000 PSI	64.5	3,034 fps	63,700 PSI
	AR2213SC	.308"	2.840"	65.0	2,848 fps	53,400 PSI	69.5C	3,015 fps	63,200 PSI
175 GR. SIE HPBT	AR2209	.308"	2.860"	61.0	2,839 fps	53,300 PSI	65.0	3,009 fps	63,400 PSI
	AR2213SC	.308"	2.860"	66.0	2,848 fps	55,300 PSI	70.0C	2,980 fps	63,100 PSI
180 GR. NOS E-TIP	AR2209	.308"	2.860"	59.0	2,751 fps	54,900 PSI	63.7C	2,925 fps	63,800 PSI

C = Compressed Load; L = Lead Projectile

RIFLE DATA

300 Winchester Short Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LRM			Barrel length: 24" Trim length: 2.090"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. SFT SCIR	AR2209	.308"	2.860"	60.0	2,799 fps	55,700 PSI	64.0	2,950 fps	63,900 PSI
	AR2213SC	.308"	2.860"	65.5	2,775 fps	52,000 PSI	70.0C	2,929 fps	64,000 PSI
190 GR. SIE HPBT	AR2209	.308"	2.860"	57.5	2,736 fps	56,200 PSI	61.0	2,853 fps	63,400 PSI
	AR2213SC	.308"	2.860"	62.0	2,704 fps	53,800 PSI	66.5C	2,858 fps	63,400 PSI
200 GR. SFT SP	AR2209	.308"	2.790"	58.0	2,666 fps	55,000 PSI	62.0	2,792 fps	63,200 PSI
	AR2213SC	.308"	2.790"	63.0	2,678 fps	56,000 PSI	66.5C	2,802 fps	63,700 PSI
	AR2217	.308"	2.790"	70.0	2,660 fps	51,600 PSI	72.0C	2,737 fps	57,200 PSI
208 GR. HDY A-MAX	AR2209	.308"	2.900"	56.4	2,612 fps	55,400 PSI	60.7	2,748 fps	62,800 PSI
	AR2213SC	.308"	2.900"	61.8	2,624 fps	54,800 PSI	66.5C	2,761 fps	62,500 PSI
	AR2217	.308"	2.900"	62.0	2,420 fps	42,900 PSI	69.0C	2,670 fps	55,900 PSI
220 GR. HDY RN	AR2209	.308"	2.830"	54.0	2,476 fps	54,100 PSI	58.0	2,602 fps	63,300 PSI
	AR2213SC	.308"	2.830"	60.0	2,520 fps	55,600 PSI	64.3C	2,646 fps	63,500 PSI
	AR2217	.308"	2.830"	69.0	2,597 fps	57,200 PSI	72.5C	2,689 fps	63,000 PSI

300 Winchester Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LR			Barrel length: 24" Trim length: 2.610"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. SPR SP	AR2206H	.308"	3.215"	60.0	3,381 fps	43,300 CUP	67.0	3,665 fps	51,400 CUP
	AR2208	.308"	3.215"	67.0	3,424 fps	42,900 CUP	72.5	3,660 fps	51,700 CUP
	AR2209	.308"	3.215"	72.0	3,337 fps	39,300 CUP	80.0	3,648 fps	49,400 CUP
	AR2213SC	.308"	3.215"	79.0	3,355 fps	41,500 CUP	84.0C	3,540 fps	48,400 CUP
	AR2217	.308"	3.215"	80.0	3,189 fps	34,700 CUP	85.0C	3,392 fps	42,000 CUP
125 GR. BAR XFB	AR2206H	.308"	3.275"	57.0	3,140 fps	44,200 CUP	62.0	3,347 fps	51,100 CUP
	AR2208	.308"	3.275"	65.0	3,281 fps	45,400 CUP	70.0	3,462 fps	52,700 CUP
	AR2209	.308"	3.275"	68.0	3,250 fps	46,100 CUP	73.0	3,424 fps	51,600 CUP
	AR2213SC	.308"	3.275"	75.0	3,286 fps	47,300 CUP	80.0	3,450 fps	52,000 CUP
	AR2217	.308"	3.275"	80.0	3,260 fps	44,200 CUP	85.0C	3,418 fps	48,700 CUP
130 GR. HDY SP	Bench Mark 8208	.308"	3.300"	60.0	3,202 fps	52,200 PSI	65.0	3,386 fps	62,200 PSI
	AR2206H	.308"	3.300"	58.0	3,187 fps	46,900 CUP	62.0	3,331 fps	52,500 CUP
	AR2208	.308"	3.300"	64.0	3,218 fps	45,600 CUP	68.5	3,398 fps	52,100 CUP
	AR2209	.308"	3.300"	70.0	3,219 fps	45,800 CUP	74.0	3,375 fps	51,600 CUP
	AR2213SC	.308"	3.300"	77.0	3,116 fps	44,900 CUP	82.0C	3,383 fps	51,300 CUP
	AR2217	.308"	3.300"	80.0	3,125 fps	38,900 CUP	85.0C	3,289 fps	45,000 CUP
150 GR. BAR TTSX BT	Bench Mark 8208	.308"	3.325"	57.0	2,925 fps	47,900 PSI	64.0	3,183 fps	61,100 PSI
	AR2206H	.308"	3.325"	57.0	3,006 fps	52,000 PSI	63.0	3,186 fps	59,900 PSI
	AR2209	.308"	3.325"	69.0	3,062 fps	49,600 PSI	74.0C	3,289 fps	60,600 PSI
	AR2213SC	.308"	3.325"	75.0	2,985 fps	46,300 PSI	80.0C	3,182 fps	50,100 PSI
150 GR. SIE SP	Trail Boss	.308"	3.340"	18.0	1,302 fps	18,400 PSI	25.5	1,687 fps	28,600 PSI
	Bench Mark 8208	.308"	3.340"	57.0	2,987 fps	52,600 PSI	61.5	3,156 fps	60,800 PSI
	AR2206H	.308"	3.340"	57.0	2,991 fps	47,300 CUP	61.0	3,124 fps	52,500 CUP
	AR2208	.308"	3.340"	56.0	2,952 fps	43,300 CUP	60.0	3,108 fps	51,400 CUP
	AR2209	.308"	3.340"	68.0	3,052 fps	47,100 CUP	72.0	3,205 fps	52,500 CUP
	AR2213SC	.308"	3.340"	73.0	3,025 fps	45,700 CUP	78.0	3,207 fps	52,700 CUP
	AR2217	.308"	3.340"	80.0	3,004 fps	46,500 CUP	85.0C	3,255 fps	52,200 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

300 Winchester Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LR			Barrel length: 24" Trim length: 2.610"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
155 GR. SIE HPBT	Bench Mark 8208	.308"	3.340"	58.0	2,997 fps	55,000 PSI	61.5	3,117 fps	60,700 PSI
	AR2206H	.308"	3.340"	55.0	2,919 fps	43,700 CUP	59.0	3,078 fps	52,200 CUP
	AR2208	.308"	3.340"	55.0	2,897 fps	42,400 CUP	59.7	3,090 fps	52,000 CUP
	AR2209	.308"	3.340"	69.0	3,013 fps	45,100 CUP	74.0	3,215 fps	52,400 CUP
	AR2213SC	.308"	3.340"	74.0	2,964 fps	43,600 CUP	79.0C	3,166 fps	51,500 CUP
	AR2217	.308"	3.340"	80.0	2,992 fps	41,300 CUP	85.0C	3,160 fps	47,400 CUP
165 GR. SPR SP	AR2206H	.308"	3.340"	55.0	2,839 fps	46,700 CUP	59.0	2,977 fps	52,500 CUP
	AR2208	.308"	3.340"	54.0	2,799 fps	43,900 CUP	58.5	2,975 fps	52,900 CUP
	AR2209	.308"	3.340"	66.0	2,910 fps	46,900 CUP	70.0	3,042 fps	51,900 CUP
	AR2213SC	.308"	3.340"	72.0	2,934 fps	47,600 CUP	75.5	3,055 fps	52,200 CUP
	AR2217	.308"	3.340"	79.0	2,957 fps	44,600 CUP	84.0	3,117 fps	51,300 CUP
168 GR. HDY BTHP	AR2206H	.308"	3.340"	55.0	2,843 fps	47,800 CUP	59.0	2,977 fps	52,900 CUP
	AR2208	.308"	3.340"	54.0	2,795 fps	44,300 CUP	58.2	2,964 fps	52,900 CUP
	AR2209	.308"	3.340"	66.0	2,900 fps	45,500 CUP	70.0	3,034 fps	51,000 CUP
	AR2213SC	.308"	3.340"	72.0	2,876 fps	45,100 CUP	75.5	3,023 fps	51,400 CUP
	AR2217	.308"	3.340"	79.0	2,938 fps	44,900 CUP	84.0	3,110 fps	51,000 CUP
175 GR. SIE HPBT	AR2209	.308"	3.300"	66.0	2,832 fps	45,800 CUP	71.0	2,992 fps	52,700 CUP
	AR2213SC	.308"	3.300"	72.0	2,843 fps	46,600 CUP	76.5	3,006 fps	53,100 CUP
	AR2217	.308"	3.300"	77.0	2,820 fps	43,100 CUP	82.0C	3,008 fps	51,800 CUP
180 GR. NOS E-TIP	AR2209	.308"	3.340"	62.1	2,730 fps	52,300 PSI	66.8	2,916 fps	62,600 PSI
	AR2213SC	.308"	3.340"	66.8	2,770 fps	53,300 PSI	71.8C	2,938 fps	61,900 PSI
	AR2217	.308"	3.340"	74.6	2,821 fps	53,300 PSI	79.4C	2,984 fps	62,400 PSI
180 GR. SPR MT-SP	AR2209	.308"	3.285"	63.0	2,787 fps	46,400 CUP	67.0	2,918 fps	53,100 CUP
	AR2213SC	.308"	3.285"	69.0	2,851 fps	48,500 CUP	73.0C	2,966 fps	53,200 CUP
	AR2217	.308"	3.285"	76.0	2,883 fps	46,800 CUP	81.0C	3,042 fps	52,900 CUP
190 GR. HDY BTSP	AR2209	.308"	3.340"	63.0	2,735 fps	46,600 CUP	67.0	2,863 fps	53,400 CUP
	AR2213SC	.308"	3.340"	69.0	2,795 fps	48,400 CUP	73.0C	2,923 fps	53,600 CUP
	AR2217	.308"	3.340"	76.0	2,822 fps	44,900 CUP	81.0C	2,990 fps	52,800 CUP
200 GR. NOS AB	AR2209	.308"	3.340"	60.0	2,576 fps	44,400 CUP	64.4	2,723 fps	51,600 CUP
	AR2213SC	.308"	3.340"	67.0	2,686 fps	49,500 CUP	71.5C	2,785 fps	52,800 CUP
	AR2217	.308"	3.340"	72.0	2,662 fps	44,500 CUP	77.0C	2,826 fps	52,600 CUP
	AR2225	.308"	3.340"	73.0	2,703 fps	44,600 CUP	78.0C	2,872 fps	52,100 CUP
200 GR. NOS PART	AR2209	.308"	3.340"	63.0	2,646 fps	47,800 CUP	66.0	2,753 fps	51,700 CUP
	AR2213SC	.308"	3.340"	67.0	2,686 fps	47,000 CUP	72.0C	2,825 fps	53,100 CUP
	AR2217	.308"	3.340"	74.0	2,725 fps	45,500 CUP	79.0C	2,883 fps	52,800 CUP
	AR2225	.308"	3.340"	79.0	2,798 fps	45,700 CUP	84.0C	2,962 fps	52,300 CUP
208 GR. HDY A-MAX	AR2209	.308"	3.420"	60.4	2,655 fps	53,600 PSI	65.7	2,813 fps	62,000 PSI
	AR2213SC	.308"	3.420"	66.5	2,671 fps	53,200 PSI	72.3	2,838 fps	62,000 PSI
	AR2217	.308"	3.420"	71.7	2,650 fps	47,800 PSI	78.0C	2,869 fps	60,200 PSI
	AR2225	.308"	3.420"	74.5	2,717 fps	50,300 PSI	81.0C	2,915 fps	61,300 PSI
220 GR. SIE RN	AR2209	.308"	3.340"	61.0	2,501 fps	46,100 CUP	65.0	2,622 fps	52,300 CUP
	AR2213SC	.308"	3.340"	66.0	2,533 fps	44,900 CUP	71.0	2,685 fps	53,100 CUP
	AR2217	.308"	3.340"	73.0	2,588 fps	44,500 CUP	78.0	2,750 fps	52,000 CUP
	AR2225	.308"	3.340"	76.0	2,646 fps	44,400 CUP	81.0C	2,810 fps	52,400 CUP
230 GR. BER TACT	AR2213SC	.308"	3.395"	64.1	2,527 fps	50,800 PSI	70.3	2,710 fps	61,200 PSI

RIFLE DATA

300 Winchester Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LR			Barrel length: 24" Trim length: 2.610"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2217	.308"	3.395"	69.1	2,471 fps	44,200 PSI	76.0C	2,721 fps	58,200 PSI
	AR2225	.308"	3.395"	71.6	2,520 fps	44,700 PSI	77.0C	2,714 fps	55,200 PSI
300 Weatherby Magnum				Case: Remington Twist: 1:10" Primer: Federal 215M			Barrel length: 24" Trim length: 2.810"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR. SIE SP	AR2208	.308"	3.475"	65.0	3,386 fps	49,500 CUP	69.0	3,492 fps	53,700 CUP
	AR2209	.308"	3.475"	77.0	3,347 fps	46,300 CUP	82.5	3,547 fps	53,200 CUP
	AR2213SC	.308"	3.475"	84.0	3,322 fps	46,000 CUP	90.0C	3,527 fps	53,100 CUP
130 GR. BAR XLC BT	AR2209	.308"	3.500"	78.0	3,287 fps	46,300 CUP	83.0	3,485 fps	52,800 CUP
	AR2213SC	.308"	3.500"	84.0	3,306 fps	46,200 CUP	89.5C	3,467 fps	53,000 CUP
150 GR. BAR TSX	Trail Boss	.308"	3.580"	19.0	1,334 fps	20,300 CUP	27.5	1,656 fps	28,900 CUP
	AR2206H	.308"	3.570"	57.0	2,926 fps	42,200 CUP	61.5	3,112 fps	54,100 CUP
	AR2208	.308"	3.570"	59.0	2,935 fps	42,200 CUP	64.5	3,155 fps	54,000 CUP
	AR2209	.308"	3.570"	70.0	3,084 fps	44,700 CUP	76.5	3,310 fps	53,800 CUP
	AR2213SC	.308"	3.570"	77.0	3,031 fps	45,200 CUP	84.0C	3,275 fps	52,900 CUP
	AR2217	.308"	3.570"	83.0	3,056 fps	43,500 CUP	88.0C	3,220 fps	49,900 CUP
165 GR. NOS BT	AR2206H	.308"	3.560"	58.0	2,871 fps	48,000 CUP	62.5	3,028 fps	54,200 CUP
	AR2208	.308"	3.560"	58.0	2,873 fps	46,300 CUP	62.0	3,033 fps	54,200 CUP
	AR2209	.308"	3.560"	69.0	2,908 fps	45,400 CUP	74.0	3,074 fps	54,100 CUP
	AR2213SC	.308"	3.560"	75.0	2,934 fps	46,400 CUP	80.2	3,113 fps	54,000 CUP
	AR2217	.308"	3.560"	84.0	3,014 fps	45,600 CUP	89.7C	3,216 fps	54,200 CUP
168 GR. NOS E-TIP	AR2206H	.308"	3.590"	55.0	2,773 fps	47,000 CUP	60.0	2,968 fps	54,500 CUP
	AR2208	.308"	3.590"	59.0	2,854 fps	48,000 CUP	63.5	2,999 fps	53,800 CUP
	AR2209	.308"	3.590"	66.0	2,898 fps	46,900 CUP	72.5	3,099 fps	53,800 CUP
	AR2213SC	.308"	3.590"	74.0	2,865 fps	43,700 CUP	81.0C	3,107 fps	54,200 CUP
	AR2217	.308"	3.590"	82.0	2,959 fps	44,100 CUP	88.0C	3,197 fps	53,700 CUP
180 GR. NOS E-TIP	AR2209	.308"	3.590"	64.0	2,783 fps	47,100 CUP	70.0	2,968 fps	54,100 CUP
	AR2213SC	.308"	3.590"	71.0	2,772 fps	46,700 CUP	78.0	2,977 fps	53,300 CUP
	AR2217	.308"	3.590"	79.0	2,861 fps	46,300 CUP	85.0C	3,054 fps	53,900 CUP
180 GR. SPR BTSP	AR2209	.308"	3.560"	69.0	2,876 fps	44,600 CUP	73.5	3,022 fps	54,000 CUP
	AR2213SC	.308"	3.560"	76.0	2,910 fps	45,300 CUP	81.5	3,096 fps	54,000 CUP
	AR2217	.308"	3.560"	83.0	2,971 fps	43,800 CUP	88.5C	3,151 fps	53,500 CUP
180 GR. WIN FS	AR2209	.308"	3.560"	67.0	2,813 fps	46,500 CUP	72.0	2,974 fps	54,600 CUP
	AR2213SC	.308"	3.560"	74.0	2,892 fps	50,200 CUP	79.0	3,013 fps	54,600 CUP
	AR2217	.308"	3.560"	78.0	2,921 fps	47,800 CUP	83.0C	3,111 fps	54,600 CUP
200 GR. NOS AB	AR2213SC	.308"	3.590"	70.0	2,702 fps	49,300 CUP	75.0	2,839 fps	54,400 CUP
	AR2217	.308"	3.590"	77.0	2,709 fps	45,800 CUP	83.0C	2,884 fps	53,700 CUP
	AR2225	.308"	3.590"	79.0	2,753 fps	45,800 CUP	84.5C	2,942 fps	53,100 CUP
200 GR. SFT	AR2209	.308"	3.510"	66.0	2,706 fps	45,800 CUP	71.0	2,866 fps	54,300 CUP
	AR2213SC	.308"	3.510"	72.0	2,708 fps	44,700 CUP	77.5	2,869 fps	52,900 CUP
	AR2217	.308"	3.510"	79.0	2,766 fps	43,200 CUP	85.0C	2,963 fps	53,400 CUP
	AR2225	.308"	3.510"	80.0	2,764 fps	46,100 CUP	85.5C	2,981 fps	54,400 CUP
220 GR. HDY RN	AR2209	.308"	3.565"	66.0	2,599 fps	45,900 CUP	70.0	2,725 fps	53,800 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

300 Weatherby Magnum				Case: Remington Twist: 1:10" Primer: Federal 215M			Barrel length: 24" Trim length: 2.810"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2213SC	.308"	3.565"	71.0	2,630 fps	47,200 CUP	75.7	2,766 fps	54,500 CUP
	AR2217	.308"	3.565"	77.0	2,670 fps	45,100 CUP	82.5	2,833 fps	53,400 CUP
	AR2225	.308"	3.565"	79.0	2,679 fps	45,900 CUP	84.0C	2,853 fps	54,000 CUP
300 Remington Ultra Mag				Case: Remington Twist: 1:10" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.840"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
130 GR. BAR XLC BT	AR2209	.308"	3.550"	87.0	3,436 fps	54,000 PSI	93.0	3,638 fps	63,000 PSI
	AR2213SC	.308"	3.550"	93.0	3,330 fps	51,200 PSI	99.5	3,579 fps	62,800 PSI
	AR2217	.308"	3.550"	100.0	3,349 fps	50,900 PSI	107.0C	3,615 fps	63,500 PSI
140 GR. BAR XBT	AR2213SC	.308"	3.555"	87.0	3,258 fps	55,100 PSI	93.0	3,447 fps	63,600 PSI
	AR2217	.308"	3.555"	95.0	3,326 fps	56,900 PSI	101.0	3,470 fps	63,100 PSI
	AR2225	.308"	3.555"	97.0	3,282 fps	52,100 PSI	103.5C	3,493 fps	61,400 PSI
150 GR. SIE SPBT	AR2213SC	.308"	3.530"	90.0	3,243 fps	55,100 PSI	94.0	3,408 fps	62,900 PSI
	AR2217	.308"	3.530"	98.0	3,258 fps	53,100 PSI	102.0	3,457 fps	62,900 PSI
	AR2225	.308"	3.530"	100.0	3,343 fps	52,600 PSI	106.0C	3,531 fps	60,800 PSI
165 GR. SFT SP	AR2213SC	.308"	3.530"	85.0	3,057 fps	52,300 PSI	90.0	3,255 fps	62,100 PSI
	AR2217	.308"	3.530"	94.0	3,135 fps	53,300 PSI	98.0	3,321 fps	62,500 PSI
	AR2225	.308"	3.530"	97.0	3,241 fps	54,200 PSI	103.0C	3,414 fps	62,300 PSI
180 GR. BAR TTSX BT	AR2213SC	.308"	3.600"	72.8	2,837 fps	49,700 PSI	77.5	3,010 fps	59,100 PSI
	AR2217	.308"	3.600"	74.5	2,891 fps	55,000 PSI	81.0	3,067 fps	63,500 PSI
	AR2225	.308"	3.600"	80.1	3,012 fps	56,700 PSI	87.0	3,130 fps	61,400 PSI
	AR2218	.308"	3.600"	82.4	2,836 fps	51,700 PSI	89.6	3,031 fps	61,900 PSI
180 GR. SPR SPBT	AR2213SC	.308"	3.530"	84.0	2,997 fps	54,000 PSI	89.0	3,167 fps	62,500 PSI
	AR2217	.308"	3.530"	91.0	3,018 fps	52,300 PSI	96.0	3,218 fps	62,800 PSI
	AR2225	.308"	3.530"	94.0	3,182 fps	58,400 PSI	100.5C	3,300 fps	62,400 PSI
	AR2218	.308"	3.530"	103.0	3,005 fps	53,700 PSI	108.0C	3,159 fps	62,100 PSI
190 GR. HDY SPBT	AR2213SC	.308"	3.555"	80.0	2,892 fps	53,000 PSI	85.0	3,069 fps	62,500 PSI
	AR2217	.308"	3.555"	88.0	2,971 fps	54,900 PSI	93.0	3,130 fps	63,500 PSI
	AR2225	.308"	3.555"	90.0	3,069 fps	56,500 PSI	96.0	3,204 fps	62,500 PSI
	AR2218	.308"	3.555"	100.0	2,938 fps	54,900 PSI	105.0C	3,085 fps	63,000 PSI
200 GR. BAR XFB	AR2217	.308"	3.555"	80.0	2,767 fps	57,400 PSI	83.0	2,850 fps	62,800 PSI
	AR2225	.308"	3.555"	81.0	2,852 fps	56,200 PSI	86.0	2,988 fps	62,800 PSI
	AR2218	.308"	3.555"	92.0	2,767 fps	56,100 PSI	98.0C	2,910 fps	63,100 PSI
200 GR. NOS AB	AR2213SC	.308"	3.600"	79.0	2,787 fps	54,700 PSI	85.0	2,953 fps	63,600 PSI
	AR2217	.308"	3.600"	87.0	2,839 fps	56,000 PSI	92.5	2,975 fps	62,800 PSI
	AR2225	.308"	3.600"	89.0	2,904 fps	56,400 PSI	95.5C	3,048 fps	62,400 PSI
	AR2218	.308"	3.600"	96.0	2,762 fps	49,700 PSI	102.0C	2,950 fps	58,900 PSI
220 GR. NOS PART	AR2217	.308"	3.530"	83.0	2,704 fps	54,500 PSI	89.0	2,863 fps	63,500 PSI
	AR2225	.308"	3.530"	84.0	2,800 fps	56,600 PSI	89.0	2,905 fps	61,900 PSI
	AR2218	.308"	3.530"	95.0	2,699 fps	54,000 PSI	100.5C	2,850 fps	62,500 PSI

RIFLE DATA

30-378 Weatherby				Case: Weatherby Twist: 1:10" Primer: Federal 215M			Barrel length: 26" Trim length: 2.903"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
150 GR. SIE SPBT	AR2213SC	.308"	3.600"	100.0	3,449 fps	49,100 CUP	104.0	3,555 fps	53,900 CUP
	AR2217	.308"	3.600"	110.0	3,464 fps	46,000 CUP	114.0	3,598 fps	52,400 CUP
	AR2225	.308"	3.600"	113.0	3,490 fps	44,900 CUP	119.0C	3,690 fps	52,400 CUP
165 GR. SFT SP	AR2213SC	.308"	3.600"	95.0	3,202 fps	46,600 CUP	100.5	3,391 fps	53,800 CUP
	AR2217	.308"	3.600"	106.0	3,285 fps	45,500 CUP	112.0	3,495 fps	55,000 CUP
	AR2225	.308"	3.600"	109.0	3,305 fps	42,800 CUP	116.0C	3,559 fps	53,400 CUP
168 GR. NOS E-TIP	AR2213SC	.308"	3.740"	93.0	3,152 fps	46,400 CUP	101.0	3,341 fps	52,400 CUP
	AR2217	.308"	3.740"	97.5	3,094 fps	43,800 CUP	106.0	3,341 fps	53,400 CUP
	AR2225	.308"	3.740"	98.0	3,127 fps	43,500 CUP	109.0C	3,444 fps	51,600 CUP
180 GR. NOS E-TIP	AR2213SC	.308"	3.740"	92.1	3,092 fps	46,700 CUP	98.0	3,222 fps	52,600 CUP
	AR2217	.308"	3.740"	95.7	3,033 fps	45,100 CUP	104.0	3,282 fps	52,600 CUP
	AR2225	.308"	3.740"	96.5	3,087 fps	46,000 CUP	106.0C	3,336 fps	53,900 CUP
	AR2218	.308"	3.740"	105.3	2,958 fps	41,700 CUP	117.0	3,237 fps	50,400 CUP
180 GR. SPR SPBT	AR2213SC	.308"	3.600"	94.0	3,134 fps	46,600 CUP	100.0	3,301 fps	54,500 CUP
	AR2217	.308"	3.600"	105.0	3,213 fps	45,200 CUP	111.0	3,412 fps	54,300 CUP
	AR2225	.308"	3.600"	107.0	3,228 fps	43,200 CUP	113.0C	3,460 fps	54,700 CUP
	AR2218	.308"	3.600"	116.0	3,089 fps	40,400 CUP	120.0C	3,229 fps	47,100 CUP
190 GR. HDY SPBT	AR2217	.308"	3.625"	102.0	3,154 fps	46,500 CUP	108.0	3,316 fps	54,800 CUP
	AR2225	.308"	3.625"	105.0	3,154 fps	43,600 CUP	111.5C	3,374 fps	54,500 CUP
	AR2218	.308"	3.625"	115.0	3,113 fps	45,700 CUP	120.0C	3,243 fps	50,900 CUP
200 GR. NOS AB	AR2217	.308"	3.650"	95.0	2,966 fps	46,100 CUP	101.5	3,130 fps	53,800 CUP
	AR2225	.308"	3.650"	98.0	2,992 fps	44,900 CUP	105.0C	3,209 fps	52,600 CUP
	AR2218	.308"	3.650"	106.0	2,958 fps	43,700 CUP	113.0C	3,142 fps	49,600 CUP
200 GR. BAR XFB	AR2218	.308"	3.645"	111.0	3,134 fps	52,300 CUP	117.0C	3,227 fps	54,800 CUP
220 GR. NOS PART	AR2217	.308"	3.600"	99.0	2,965 fps	47,800 CUP	104.0	3,084 fps	53,700 CUP
	AR2225	.308"	3.600"	101.0	2,954 fps	44,700 CUP	107.5	3,155 fps	55,000 CUP
	AR2218	.308"	3.600"	115.0	3,047 fps	48,300 CUP	118.5C	3,145 fps	53,700 CUP

7.62 x 39mm Russian				Case: Midway Twist: 1:9.45" Primer: CCI 200			Barrel length: 24" Trim length: 1.518"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
108 GR. BAR RRLP FB	AR2207	.310"	2.210"	23.3	2,155 fps	38,300 CUP	25.0	2,310 fps	42,300 CUP
	AR2219	.310"	2.210"	25.7	1,974 fps	34,500 CUP	28.5C	2,199 fps	41,200 CUP
	Bench Mark 2	.310"	2.210"	25.0	1,826 fps	32,200 CUP	28.5C	2,118 fps	38,700 CUP
125 GR. SPR SP	AR2207	.311"	2.150"	24.5	2,190 fps	34,200 CUP	26.5	2,378 fps	40,400 CUP
	AR2219	.311"	2.150"	28.0	2,210 fps	32,900 CUP	29.0	2,323 fps	35,400 CUP
	AR2206H	.311"	2.150"	28.0	2,171 fps	29,900 CUP	29.0	2,249 fps	33,600 CUP
150 GR. HDY SP	AR2207	.312"	2.220"	22.5	1,947 fps	33,600 CUP	24.5	2,122 fps	39,800 CUP
	AR2219	.312"	2.220"	27.0	2,084 fps	34,200 CUP	28.5	2,192 fps	40,400 CUP
	AR2206H	.312"	2.220"	27.0	2,080 fps	33,600 CUP	28.0	2,154 fps	39,300 CUP

RIFLE DATA

310 Cadet (Martini Action)				Case:			Barrel length: 22"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. LEAD	AR2205	-	-	-	-	-	11.0	1,500 fps	-
120 GR.	AR2205	-	-	-	-	-	9.0	1,270 fps	-
32-20 Winchester (32-20 WCF)				Case:			Barrel length: 24"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
80 GR.	AR2205	-	-	-	-	-	16.0	2,150 fps	-
100 GR.	AR2205	-	-	-	-	-	14.0	1,950 fps	-
115 GR. LEAD	AP70N	-	-	-	-	-	4.0	1,260 fps	-
115 GR.	AR2205	-	-	-	-	-	13.0	1,800 fps	-
125 GR LEAD	AP70N	-	-	-	-	-	3.7	1,225 fps	-
7.7 x 58mm Japanese				Case: Norma			Barrel length: 26"		
				Twist: 1:9.75"			Trim length: 2.260"		
				Primer: Remington 9 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
150 GR. SIE SP	AR2206H	.311"	3.050"	41.0	2,337 fps	-	44.0	2,529 fps	-
	AR2209	.311"	3.050"	48.0	2,330 fps	-	51.0	2,514 fps	-
	AR2213SC	.311"	3.050"	50.0	2,180 fps	-	55.0	2,445 fps	-
180 GR. SIE SP	AR2206H	.311"	3.150"	37.0	2,060 fps	-	40.0	2,230 fps	-
	AR2209	.311"	3.150"	44.0	2,090 fps	-	47.0	2,309 fps	-
	AR2213SC	.311"	3.150"	46.0	2,011 fps	-	50.0	2,233 fps	-
303 British				Case: Remington			Barrel length: 24"		
				Twist: 1:10"			Trim length: 2.212"		
				Primer: Federal 210					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR. SPR SP	Bench Mark 8208	.311"	2.915"	39.0	2,708 fps	38,400 CUP	43.0	2,886 fps	43,100 CUP
125 GR.	AR2206	-	-	42.0	2,635 fps	-	46.0C	2,880 fps	-
125 GR. SPR SP	AR2206H	.311"	2.915"	41.0	2,791 fps	42,400 CUP	45.0	2,931 fps	43,700 CUP
	AR2208	.311"	2.915"	45.0	2,766 fps	39,200 CUP	48.0	2,883 fps	42,100 CUP
150 GR. HDY SP	Bench Mark 8208	.312"	2.995"	34.0	2,392 fps	37,700 CUP	36.7	2,515 fps	41,300 CUP
150 GR.	AR2206	-	-	36.0	2,440 fps	-	39.5	2,620 fps	-
150 GR. HDY SP	AR2206H	.312"	2.995"	36.0	2,447 fps	40,300 CUP	40.0	2,627 fps	43,600 CUP
	AR2208	.312"	2.995"	39.0	2,458 fps	39,600 CUP	43.0	2,656 fps	42,700 CUP
174 GR.	AR2206	-	-	34.0	2,245 fps	-	37.5	2,515 fps	-
174 GR. SIE HPBT	AR2206H	.311"	3.075"	34.0	2,262 fps	38,800 CUP	38.0	2,446 fps	43,600 CUP
	AR2208	.311"	3.075"	38.0	2,345 fps	38,800 CUP	42.0	2,509 fps	43,800 CUP
	AR2209	.311"	3.075"	43.0	2,266 fps	35,400 CUP	48.0C	2,517 fps	41,900 CUP
180 GR. SIE SP	Bench Mark 8208	.311"	3.075"	31.0	2,108 fps	34,900 CUP	35.0	2,325 fps	43,300 CUP
180 GR.	AR2206	-	-	33.0	2,200 fps	-	37.5	2,390 fps	-
180 GR. SIE SP	AR2206H	.311"	3.075"	34.0	2,178 fps	35,200 CUP	38.0	2,400 fps	43,500 CUP

RIFLE DATA

303 British				Case: Remington Twist: 1:10" Primer: Federal 210			Barrel length: 24" Trim length: 2.212"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2208	.311"	3.075"	37.0	2,282 fps	38,200 CUP	41.0	2,440 fps	43,400 CUP
	AR2209	.311"	3.075"	44.0	2,295 fps	35,700 CUP	48.0C	2,500 fps	43,800 CUP
215 GR.	AR2206	-	-	35.0	2,080 fps	-	39.0	2,250 fps	-
7.65 x 53mm Mauser				Case: Norma Twist: 1:9.8" Primer: Federal 210			Barrel length: 29" Trim length: 2.080"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
150 GR.	AR2206	-	-	38.0	2,285 fps	-	42.0	2,565 fps	-
150 GR. HDY SP	AR2206H	.312"	2.815"	39.5	2,341 fps	-	43.0	2,597 fps	-
	AR2209	.312"	2.815"	45.0	2,347 fps	-	49.0	2,614 fps	-
174 GR.	AR2206	-	-	36.0	2,055 fps	-	38.5	2,325 fps	-
174 GR. HDY RN	AR2206H	.312"	2.850"	37.0	2,072 fps	-	40.0	2,351 fps	-
	AR2209	.312"	2.850"	43.0	2,266 fps	-	47.0	2,454 fps	-
	AR2213SC	.312"	2.850"	-	-	-	53.0	2,456 fps	-
32 Winchester Special				Case: Winchester Twist: 1:16" Primer: CCI 200			Barrel length: 20" Trim length: 2.030"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
170 GR. HDY JFP	AR2219	.321"	2.565"	30.0	2,111 fps	32,100 CUP	32.3	2,263 fps	36,800 CUP
	Bench Mark 2	.321"	2.565"	30.0	2,005 fps	29,900 CUP	32.5	2,175 fps	36,600 CUP
170 GR.	AR2206	-	-	31.0	1,965 fps	-	33.0	2,200 fps	-
170 GR. HDY JFP	AR2206H	.321"	2.565"	32.0	2,122 fps	30,800 CUP	34.5	2,283 fps	36,100 CUP
	AR2208	.321"	2.565"	34.0	2,096 fps	30,800 CUP	37.0C	2,271 fps	36,400 CUP
32-40 Winchester				Case: Winchester Twist: 1:16" Primer: Remington 2 1/2			Barrel length: 24" Trim length: 2.120"		
NOTE: See Single Action Rifle section for more loads with lead bullets.									
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
170 GR.	AR2207	-	-	-	-	-	19.0	1,650 fps	-
	AR2206	-	-	-	-	-	26.0	1,825 fps	-

RIFLE DATA

8 x 57mm Mauser				Case: Remington			Barrel length: 24"		
				Twist: 1:9.5"			Trim length: 2.230"		
				Primer: Remington 9 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR. HDY SP	Bench Mark 2	.323"	2.880"	43.5	2,728 fps	36,400 CUP	49.8	3,068 fps	49,700 CUP
	Bench Mark 8208	.323"	2.880"	48.0	2,907 fps	41,500 CUP	52.2	3,139 fps	48,700 CUP
	AR2206H	.323"	2.880"	47.0	2,843 fps	37,300 CUP	53.5	3,208 fps	49,400 CUP
	AR2208	.323"	2.880"	47.0	2,730 fps	36,600 CUP	54.0	3,092 fps	48,100 CUP
150 GR. HDY SP	Bench Mark 2	.323"	2.950"	42.5	2,577 fps	36,900 CUP	47.5	2,860 fps	48,800 CUP
	Bench Mark 8208	.323"	2.950"	44.1	2,648 fps	40,600 CUP	48.0	2,861 fps	48,300 CUP
	AR2206H	.323"	2.950"	44.0	2,619 fps	37,200 CUP	51.0	2,987 fps	49,500 CUP
	AR2208	.323"	2.950"	45.5	2,561 fps	37,500 CUP	52.4C	2,896 fps	49,000 CUP
160 GR. BAR TTSX BT	Bench Mark 2	.323"	3.010"	43.1	2,558 fps	42,500 CUP	46.6	2,726 fps	49,300 CUP
	Bench Mark 8208	.323"	3.010"	42.0	2,486 fps	37,200 CUP	46.5C	2,758 fps	48,300 CUP
	AR2206H	.323"	3.010"	44.0	2,603 fps	39,200 CUP	48.5C	2,821 fps	47,700 CUP
	AR2208	.323"	3.010"	45.0	2,503 fps	36,100 CUP	49.0C	2,727 fps	43,600 CUP
170 GR. HDY RN	Bench Mark 2	.323"	2.825"	41.0	2,397 fps	37,100 CUP	46.6	2,679 fps	49,100 CUP
	Bench Mark 8208	.323"	2.825"	44.2	2,575 fps	41,400 CUP	47.0	2,696 fps	48,000 CUP
	AR2206H	.323"	2.825"	40.0	2,306 fps	37,400 CUP	49.0	2,769 fps	48,700 CUP
	AR2208	.323"	2.825"	43.0	2,362 fps	36,700 CUP	50.5	2,700 fps	48,700 CUP
175 GR. SIE SP	Bench Mark 2	.323"	3.100"	41.0	2,414 fps	37,100 CUP	46.2	2,657 fps	48,400 CUP
	Bench Mark 8208	.323"	3.100"	43.7	2,537 fps	41,400 CUP	46.5	2,667 fps	46,600 CUP
	AR2206H	.323"	3.100"	40.0	2,387 fps	36,800 CUP	49.4	2,762 fps	48,300 CUP
	AR2208	.323"	3.100"	43.0	2,418 fps	37,200 CUP	50.5	2,716 fps	48,500 CUP
180 GR. BAR TSX	Bench Mark 2	.323"	2.960"	34.0	2,104 fps	37,200 CUP	42.0	2,466 fps	48,800 CUP
	Bench Mark 8208	.323"	2.960"	41.8	2,459 fps	43,300 CUP	44.5	2,572 fps	48,300 CUP
	AR2206H	.323"	2.960"	39.0	2,259 fps	36,800 CUP	46.0C	2,565 fps	48,700 CUP
	AR2208	.323"	2.960"	41.0	2,256 fps	35,800 CUP	47.8C	2,570 fps	48,400 CUP
180 GR. NOS BT	Bench Mark 2	.323"	3.020"	39.0	2,304 fps	36,800 CUP	44.5	2,586 fps	48,900 CUP
	Bench Mark 8208	.323"	3.020"	43.0	2,479 fps	41,300 CUP	45.7	2,619 fps	47,900 CUP
	AR2206H	.323"	3.020"	41.0	2,387 fps	36,300 CUP	47.7	2,691 fps	49,300 CUP
	AR2208	.323"	3.020"	42.0	2,309 fps	36,600 CUP	48.8	2,641 fps	49,400 CUP
200 GR. SPR SP	Bench Mark 8208	.323"	2.970"	41.4	2,325 fps	39,900 CUP	44.0	2,459 fps	47,600 CUP
	AR2206H	.323"	2.970"	38.0	2,240 fps	36,800 CUP	45.4	2,539 fps	49,200 CUP
	AR2208	.323"	2.970"	40.5	2,183 fps	36,900 CUP	47.5	2,511 fps	49,100 CUP
	AR2209	.323"	2.970"	49.0	2,276 fps	35,900 CUP	54.0C	2,522 fps	44,800 CUP
220 GR. HDY SP	Bench Mark 8208	.323"	2.970"	41.5	2,249 fps	40,000 CUP	44.1	2,348 fps	47,500 CUP
	AR2206H	.323"	2.970"	40.0	2,178 fps	37,200 CUP	45.2	2,420 fps	48,800 CUP
	AR2208	.323"	2.970"	39.0	2,055 fps	36,800 CUP	46.8	2,390 fps	48,800 CUP

RIFLE DATA

8 x 68mm Schuler				Case:			Barrel length: 26"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
125 GR.	AR2209	-	-	-	-	-	73.0	3,300 fps	-
150 GR.	AR2209	-	-	-	-	-	70.0	3,100 fps	-
170 GR.	AR2209	-	-	-	-	-	68.0	2,950 fps	-
220 GR.	AR2209	-	-	-	-	-	62.0	2,650 fps	-

325 Winchester Short Magnum				Case: Winchester			Barrel length: 24"		
				Twist: 1:10"			Trim length: 2.090"		
				Primer: Winchester LRM					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
150 GR. HDY SP	Bench Mark 2	.323"	2.810"	57.0	3,074 fps	50,200 PSI	60.5	3,253 fps	62,400 PSI
	Bench Mark 8208	.323"	2.810"	56.1	3,059 fps	55,400 PSI	59.7	3,171 fps	61,000 PSI
	AR2206H	.323"	2.810"	60.0	3,156 fps	53,600 PSI	63.5	3,313 fps	63,300 PSI
	AR2208	.323"	2.810"	61.0	3,137 fps	54,200 PSI	65.0	3,305 fps	63,600 PSI
	AR2209	.323"	2.810"	69.0	3,138 fps	51,600 PSI	73.5C	3,345 fps	63,700 PSI
	AR2213SC	.323"	2.810"	71.0	2,945 fps	44,100 PSI	75.0C	3,115 fps	52,800 PSI
175 GR. SIE SP	Bench Mark 2	.323"	2.855"	51.0	2,743 fps	54,000 PSI	53.7	2,863 fps	62,700 PSI
	Bench Mark 8208	.323"	2.855"	52.6	2,793 fps	54,300 PSI	56.0	2,923 fps	62,800 PSI
	AR2206H	.323"	2.855"	57.5	2,858 fps	54,100 PSI	61.0	3,000 fps	62,900 PSI
	AR2208	.323"	2.855"	58.0	2,862 fps	55,400 PSI	61.0	2,975 fps	62,300 PSI
	AR2209	.323"	2.855"	64.5	2,835 fps	51,100 PSI	68.0C	3,024 fps	63,400 PSI
	AR2213SC	.323"	2.855"	70.0	2,819 fps	51,400 PSI	73.0C	2,960 fps	61,400 PSI
180 GR. NOS BT	Bench Mark 8208	.323"	2.840"	51.5	2,743 fps	54,900 PSI	54.8	2,855 fps	60,800 PSI
	AR2206H	.323"	2.840"	52.5	2,732 fps	55,100 PSI	54.6	2,820 fps	60,300 PSI
	AR2208	.323"	2.840"	55.0	2,770 fps	56,500 PSI	58.0	2,873 fps	62,700 PSI
	AR2209	.323"	2.840"	61.8	2,794 fps	52,500 PSI	65.5	2,957 fps	62,200 PSI
	AR2213SC	.323"	2.840"	62.0	2,776 fps	52,900 PSI	65.8C	2,930 fps	62,800 PSI
195 GR. HDY SP	Bench Mark 8208	.323"	2.855"	50.3	2,617 fps	55,900 PSI	53.5	2,728 fps	62,600 PSI
	AR2206H	.323"	2.855"	53.0	2,648 fps	55,000 PSI	56.0	2,763 fps	62,500 PSI
	AR2208	.323"	2.855"	54.0	2,661 fps	55,500 PSI	57.3	2,782 fps	62,800 PSI
	AR2209	.323"	2.855"	61.0	2,712 fps	54,400 PSI	64.5	2,837 fps	62,300 PSI
	AR2213SC	.323"	2.855"	66.3	2,704 fps	54,600 PSI	70.5C	2,835 fps	63,000 PSI
200 GR. BAR XLC	AR2206H	.323"	2.860"	54.0	2,662 fps	58,400 PSI	57.3	2,739 fps	62,200 PSI
	AR2208	.323"	2.860"	55.5	2,642 fps	55,100 PSI	59.0	2,762 fps	62,300 PSI
	AR2209	.323"	2.860"	63.0	2,689 fps	52,500 PSI	67.0	2,843 fps	62,900 PSI
220 GR. SFT SP	AR2206H	.323"	2.845"	49.5	2,438 fps	54,800 PSI	52.5	2,556 fps	63,100 PSI
	AR2208	.323"	2.845"	50.8	2,448 fps	55,800 PSI	54.0	2,569 fps	62,400 PSI
	AR2209	.323"	2.845"	58.3	2,518 fps	52,700 PSI	62.0	2,649 fps	62,400 PSI
	AR2213SC	.323"	2.845"	63.0	2,491 fps	52,200 PSI	67.0C	2,638 fps	61,300 PSI

RIFLE DATA

8mm Remington Magnum				Case: Remington Twist: 1:10" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.840"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
150 GR. SPR SP	AR2208	.323"	3.550"	71.0	3,253 fps	46,100 CUP	75.0	3,403 fps	52,600 CUP
	AR2209	.323"	3.550"	79.0	3,242 fps	45,700 CUP	83.5	3,401 fps	52,500 CUP
	AR2213SC	.323"	3.550"	88.0	3,268 fps	47,200 CUP	92.0C	3,378 fps	51,500 CUP
175 GR. SIE SP	AR2209	.323"	3.600"	72.0	2,930 fps	45,300 CUP	77.0	3,141 fps	52,300 CUP
	AR2213SC	.323"	3.600"	81.0	3,031 fps	47,300 CUP	86.5	3,162 fps	52,800 CUP
180 GR. BAR TSX	AR2213SC	.323"	3.600"	73.0	2,858 fps	47,400 CUP	79.5	3,035 fps	52,000 CUP
	AR2217	.323"	3.600"	81.0	2,912 fps	46,100 CUP	89.0C	3,099 fps	52,400 CUP
200 GR. NOS PART	AR2209	.323"	3.600"	70.0	2,820 fps	47,300 CUP	74.0	2,950 fps	52,200 CUP
	AR2213SC	.323"	3.600"	77.0	2,819 fps	47,400 CUP	81.5	2,944 fps	52,000 CUP
	AR2217	.323"	3.600"	86.0	2,825 fps	45,300 CUP	89.0C	2,920 fps	48,100 CUP
220 GR. HDY SP	AR2209	.323"	3.600"	70.0	2,690 fps	48,200 CUP	74.0	2,824 fps	52,100 CUP
	AR2213SC	.323"	3.600"	76.0	2,685 fps	46,700 CUP	80.5	2,816 fps	52,100 CUP
	AR2217	.323"	3.600"	85.0	2,726 fps	46,700 CUP	88.0C	2,817 fps	49,300 CUP
338 Marlin Express				Case: Homady Twist: 1:12" Primer: Winchester LRM			Barrel length: 24" Trim length: 1.910"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. HDY FTX	Bench Mark 2	.338"	2.590"	36.0	2,198 fps	42,200 PSI	38.2	2,281 fps	44,800 PSI
	Bench Mark 8208	.338"	2.590"	37.8	2,228 fps	40,700 PSI	40.2	2,322 fps	44,000 PSI
	AR2206H	.338"	2.590"	35.7	2,170 fps	38,900 PSI	38.0	2,309 fps	45,400 PSI
	AR2208	.338"	2.590"	40.0	2,224 fps	41,600 PSI	42.5	2,326 fps	44,600 PSI
338 Federal				Case: Federal Twist: 1:10" Primer: Federal 210M			Barrel length: 24" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. BAR TTSX	AR2207	.338"	2.840"	40.2	2,756 fps	53,600 PSI	42.8	2,884 fps	61,500 PSI
	AR2219	.338"	2.840"	44.6	2,761 fps	52,400 PSI	48.5C	2,937 fps	61,800 PSI
	Bench Mark 2	.338"	2.840"	45.1	2,725 fps	47,900 PSI	49.0C	2,894 fps	56,200 PSI
	Bench Mark 8208	.338"	2.840"	46.0	2,733 fps	46,500 PSI	50.0C	2,910 fps	54,700 PSI
180 GR. NOS AB	AR2219	.338"	2.810"	41.0	2,514 fps	46,000 PSI	45.5C	2,743 fps	59,700 PSI
	Bench Mark 2	.338"	2.810"	42.0	2,532 fps	47,900 PSI	47.0C	2,768 fps	61,300 PSI
	Bench Mark 8208	.338"	2.810"	44.6	2,641 fps	49,600 PSI	48.5C	2,811 fps	59,900 PSI
	AR2206H	.338"	2.810"	43.0	2,486 fps	42,400 PSI	47.0C	2,682 fps	50,800 PSI
185 GR. BAR TSX	AR2219	.338"	2.800"	39.0	2,447 fps	49,400 PSI	43.3C	2,645 fps	59,700 PSI
	Bench Mark 2	.338"	2.800"	39.0	2,416 fps	48,000 PSI	44.0C	2,637 fps	60,100 PSI
	Bench Mark 8208	.338"	2.800"	44.2	2,601 fps	51,800 PSI	47.0C	2,721 fps	59,500 PSI
	AR2206H	.338"	2.800"	42.0	2,456 fps	45,400 PSI	46.5C	2,690 fps	58,200 PSI
	AR2208	.338"	2.800"	42.0	2,364 fps	43,000 PSI	47.0C	2,607 fps	54,700 PSI
200 GR. HDY SP	AR2219	.338"	2.810"	40.0	2,412 fps	49,500 PSI	44.5	2,596 fps	59,300 PSI
	Bench Mark 2	.338"	2.810"	40.0	2,309 fps	43,200 PSI	45.0C	2,584 fps	59,700 PSI
	Bench Mark 8208	.338"	2.810"	44.0	2,504 fps	50,200 PSI	47.0C	2,657 fps	60,300 PSI
	AR2206H	.338"	2.810"	42.0	2,350 fps	42,600 PSI	47.0C	2,597 fps	55,100 PSI

RIFLE DATA

338 Federal				Case: Federal Twist: 1:10" Primer: Federal 210M			Barrel length: 24" Trim length: 2.005"			
				Start loads			Maximum loads			
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure	
210 GR. SFT SCIR	AR2208	.338"	2.810"	42.0	2,264 fps	40,400 PSI	47.0C	2,510 fps	52,100 PSI	
	AR2219	.338"	2.820"	38.0	2,296 fps	45,900 PSI	42.3C	2,511 fps	59,200 PSI	
	Bench Mark 2	.338"	2.820"	38.0	2,277 fps	45,900 PSI	43.0C	2,514 fps	60,800 PSI	
	Bench Mark 8208	.338"	2.820"	40.7	2,402 fps	52,000 PSI	43.3C	2,508 fps	59,400 PSI	
	AR2206H	.338"	2.820"	40.0	2,281 fps	41,600 PSI	45.0C	2,551 fps	58,100 PSI	
215 GR. SIE SP	AR2208	.338"	2.820"	41.0	2,248 fps	42,000 PSI	46.0C	2,503 fps	56,500 PSI	
	AR2219	.338"	2.810"	38.0	2,305 fps	50,400 PSI	43.0	2,504 fps	60,300 PSI	
	Bench Mark 2	.338"	2.810"	39.0	2,286 fps	47,200 PSI	43.3	2,487 fps	60,000 PSI	
	Bench Mark 8208	.338"	2.810"	41.9	2,396 fps	50,500 PSI	44.6	2,519 fps	59,400 PSI	
	AR2206H	.338"	2.810"	41.0	2,297 fps	43,500 PSI	46.0C	2,539 fps	57,600 PSI	
225 GR. SFT SP	AR2208	.338"	2.810"	41.0	2,216 fps	41,000 PSI	46.0C	2,452 fps	53,100 PSI	
	AR2219	.338"	2.750"	37.0	2,204 fps	52,700 PSI	41.0	2,357 fps	60,000 PSI	
	Bench Mark 2	.338"	2.750"	38.0	2,150 fps	46,600 PSI	42.8	2,365 fps	59,500 PSI	
	Bench Mark 8208	.338"	2.750"	40.5	2,283 fps	52,400 PSI	43.1	2,394 fps	60,500 PSI	
	AR2206H	.338"	2.750"	40.0	2,167 fps	42,900 PSI	45.3C	2,445 fps	60,000 PSI	
AR2208	.338"	2.750"	41.0	2,149 fps	43,100 PSI	46.0C	2,410 fps	57,900 PSI		
	338-06				Case: Winchester Twist: 1:10" Primer: CCI 200			Barrel length: 24" Trim length: 2.484"		
					Start loads			Maximum loads		
	Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	160 GR. BAR X	AR2219	.338"	3.150"	50.0	2,870 fps	55,200 PSI	55.0	3,074 fps	62,800 PSI
Bench Mark 2		.338"	3.150"	51.0	2,859 fps	50,300 PSI	56.8	3,103 fps	63,600 PSI	
AR2206H		.338"	3.150"	53.0	2,901 fps	50,600 PSI	58.0C	3,112 fps	62,200 PSI	
AR2208		.338"	3.150"	56.0	2,924 fps	51,200 PSI	60.0C	3,063 fps	57,900 PSI	
175 GR. BAR X	AR2219	.338"	3.130"	48.0	2,717 fps	49,700 PSI	52.2	2,902 fps	62,000 PSI	
	Bench Mark 2	.338"	3.130"	49.0	2,731 fps	51,700 PSI	53.7	2,921 fps	63,100 PSI	
	AR2206H	.338"	3.130"	51.0	2,774 fps	51,200 PSI	56.0	2,981 fps	63,300 PSI	
	AR2208	.338"	3.130"	55.0	2,841 fps	55,100 PSI	59.0C	2,982 fps	63,000 PSI	
180 GR. NOS BT	AR2219	.338"	3.250"	49.0	2,738 fps	52,000 PSI	53.0	2,916 fps	63,000 PSI	
	Bench Mark 2	.338"	3.250"	50.0	2,763 fps	53,700 PSI	54.2	2,925 fps	63,400 PSI	
	Bench Mark 8208	.338"	3.250"	48.0	2,681 fps	50,000 PSI	53.3	2,897 fps	63,000 PSI	
	AR2206H	.338"	3.250"	51.0	2,735 fps	49,600 PSI	55.0	2,933 fps	62,700 PSI	
	AR2208	.338"	3.250"	54.0	2,782 fps	51,000 PSI	58.5C	2,961 fps	62,000 PSI	
185 GR. BAR XBT	AR2219	.338"	3.130"	47.0	2,669 fps	52,900 PSI	50.5	2,823 fps	62,400 PSI	
	Bench Mark 2	.338"	3.130"	47.0	2,629 fps	50,400 PSI	51.3	2,826 fps	62,700 PSI	
	AR2206H	.338"	3.130"	49.0	2,671 fps	51,000 PSI	53.5	2,865 fps	62,900 PSI	
	AR2208	.338"	3.130"	52.0	2,723 fps	54,000 PSI	56.0	2,867 fps	62,300 PSI	
185 GR. BAR TSX	Bench Mark 8208	.338"	3.250"	47.0	2,596 fps	50,800 PSI	52.0	2,797 fps	62,000 PSI	
200 GR. HDY SP	AR2219	.338"	3.310"	47.0	2,583 fps	53,600 PSI	50.9	2,724 fps	61,900 PSI	
	Bench Mark 2	.338"	3.310"	48.0	2,569 fps	52,400 PSI	52.2	2,725 fps	61,000 PSI	
	Bench Mark 8208	.338"	3.310"	49.0	2,624 fps	55,200 PSI	52.8	2,751 fps	62,000 PSI	
	AR2206H	.338"	3.310"	50.0	2,628 fps	52,900 PSI	54.0	2,787 fps	63,300 PSI	
	AR2208	.338"	3.310"	52.0	2,622 fps	51,500 PSI	56.5	2,807 fps	63,100 PSI	
	AR2209	.338"	3.310"	58.0	2,593 fps	47,800 PSI	62.0C	2,729 fps	54,300 PSI	

C = Compressed Load; L = Lead Projectile

RIFLE DATA

338-06				Case: Winchester Twist: 1:10" Primer: CCI 200			Barrel length: 24" Trim length: 2.484"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
210 GR. NOS PART	Bench Mark 8208	.338"	3.240"	45.0	2,457 fps	54,300 PSI	48.5	2,598 fps	61,500 PSI
	AR2206H	.338"	3.240"	47.0	2,480 fps	49,900 PSI	51.7	2,685 fps	62,900 PSI
	AR2208	.338"	3.240"	50.0	2,545 fps	52,400 PSI	53.9	2,701 fps	62,400 PSI
	AR2209	.338"	3.240"	58.0	2,598 fps	52,200 PSI	62.0C	2,753 fps	61,800 PSI
215 GR. SIE SBT	Bench Mark 8208	.338"	3.240"	46.0	2,459 fps	52,500 PSI	50.5	2,641 fps	63,400 PSI
	AR2206H	.338"	3.240"	48.0	2,503 fps	51,200 PSI	51.9	2,675 fps	62,600 PSI
	AR2208	.338"	3.240"	50.0	2,510 fps	50,200 PSI	54.5	2,700 fps	62,400 PSI
	AR2209	.338"	3.240"	58.0	2,573 fps	50,600 PSI	62.0C	2,727 fps	59,900 PSI
225 GR. SPR SPBT	Bench Mark 8208	.338"	3.240"	44.0	2,362 fps	52,700 PSI	48.3	2,532 fps	62,500 PSI
	AR2206H	.338"	3.240"	46.0	2,410 fps	51,200 PSI	49.8	2,577 fps	63,000 PSI
	AR2208	.338"	3.240"	48.0	2,441 fps	52,100 PSI	52.0	2,599 fps	62,700 PSI
	AR2209	.338"	3.240"	55.0	2,481 fps	52,100 PSI	59.5C	2,649 fps	62,700 PSI
250 GR. HDY SP	AR2208	.338"	3.300"	46.0	2,248 fps	51,300 PSI	50.0	2,405 fps	62,100 PSI
	AR2209	.338"	3.300"	55.0	2,366 fps	51,700 PSI	59.8	2,540 fps	63,400 PSI
338 Ruger Compact Magnum				Case: Homady Twist: 1:10" Primer: Winchester LRM			Barrel length: 24" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. BAR TTSX	Bench Mark 8208	.338"	2.830"	52.4	2,848 fps	45,800 PSI	57.0C	3,101 fps	62,900 PSI
	AR2206H	.338"	2.830"	52.0	2,858 fps	50,200 PSI	58.0C	3,117 fps	63,100 PSI
	AR2208	.338"	2.830"	53.0	2,771 fps	46,800 PSI	59.5C	3,067 fps	62,200 PSI
180 GR. NOS AB	Bench Mark 8208	.338"	2.830"	50.8	2,769 fps	52,600 PSI	54.6	2,919 fps	61,900 PSI
	AR2206H	.338"	2.830"	50.0	2,736 fps	52,200 PSI	55.0C	2,923 fps	61,200 PSI
	AR2208	.338"	2.830"	51.0	2,682 fps	50,000 PSI	56.7C	2,909 fps	62,200 PSI
185 GR. BAR TSX	Bench Mark 8208	.038"	2.800"	51.2	2,732 fps	53,400 PSI	54.5C	2,868 fps	62,700 PSI
	AR2206H	.338"	2.800"	50.0	2,649 fps	49,400 PSI	54.8C	2,852 fps	60,600 PSI
	AR2208	.338"	2.800"	51.0	2,602 fps	48,000 PSI	57.0C	2,867 fps	62,900 PSI
200 GR. HDY SP	Bench Mark 8208	.338"	2.830"	50.8	2,655 fps	55,300 PSI	54.0	2,759 fps	60,900 PSI
	AR2206H	.338"	2.830"	50.0	2,627 fps	55,400 PSI	55.3	2,803 fps	63,600 PSI
	AR2208	.338"	2.830"	51.0	2,572 fps	51,300 PSI	57.0C	2,798 fps	64,000 PSI
210 GR. SFT SCIR	AR2206H	.338"	2.830"	47.0	2,514 fps	54,200 PSI	52.0C	2,665 fps	60,800 PSI
	AR2208	.338"	2.830"	48.0	2,457 fps	49,800 PSI	53.0C	2,662 fps	62,300 PSI
215 GR. SIE SPBT	Bench Mark 8208	.338"	2.830"	48.4	2,540 fps	57,600 PSI	51.0	2,620 fps	61.5 PSI
	AR2206H	.338"	2.830"	46.0	2,460 fps	51,600 PSI	51.0	2,639 fps	61,900 PSI
	AR2208	.338"	2.830"	48.0	2,465 fps	52,000 PSI	53.5C	2,658 fps	62,900 PSI
225 GR. HDY IB	Bench Mark 8208	.338"	2.830"	48.2	2,465 fps	54,200 PSI	51.3	2,587 fps	62,600 PSI
	AR2206H	.338"	2.830"	47.0	2,465 fps	56,800 PSI	52.3	2,619 fps	63,300 PSI
	AR2208	.338"	2.830"	48.0	2,403 fps	50,500 PSI	53.3	2,601 fps	62,200 PSI
250 GR. SFT AF/SS	Bench Mark 8208	.338"	2.730"	44.9	2,258 fps	56,500 PSI	47.3	2,321 fps	59,400 PSI
	AR2206H	.338"	2.730"	41.0	2,158 fps	50,500 PSI	45.8C	2,355 fps	63,100 PSI
	AR2208	.338"	2.730"	44.0	2,192 fps	51,500 PSI	48.8C	2,352 fps	61,400 PSI

RIFLE DATA

338 Winchester Magnum				Case: Winchester Twist: 1:10" Primer: Winchester LRM			Barrel length: 24" Trim length: 2.490"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. BAR TTSX	Bench Mark 8208	.338"	3.325"	58.0	3,023 fps	47,000 CUP	64.0	3,198 fps	51,900 CUP
	AR2206H	.338"	3.325"	60.0	3,057 fps	45,000 CUP	67.0	3,271 fps	51,600 CUP
	AR2208	.338"	3.325"	62.0	2,984 fps	41,600 CUP	68.5	3,196 fps	51,100 CUP
180 GR. NOS BT	AR2206H	.338"	3.340"	58.0	2,893 fps	45,100 CUP	64.0	3,066 fps	52,300 CUP
	AR2208	.338"	3.340"	57.0	2,871 fps	45,500 CUP	63.5	3,087 fps	53,200 CUP
	AR2209	.338"	3.340"	69.0	2,928 fps	41,200 CUP	74.5	3,157 fps	52,200 CUP
	AR2213SC	.338"	3.340"	70.0	2,776 fps	35,200 CUP	78.0C	3,067 fps	49,100 CUP
185 GR. BAR TSX	AR2206H	.338"	3.290"	56.0	2,764 fps	46,600 CUP	59.5	2,901 fps	52,300 CUP
	AR2208	.338"	3.290"	60.0	2,831 fps	47,200 CUP	65.0	3,013 fps	52,900 CUP
	AR2209	.338"	3.290"	69.6	2,896 fps	47,500 CUP	74.0C	3,048 fps	52,800 CUP
200 GR. SPR SP	AR2206H	.338"	3.300"	56.0	2,702 fps	44,700 CUP	62.0	2,877 fps	52,600 CUP
	AR2208	.338"	3.300"	53.0	2,597 fps	39,100 CUP	58.5	2,805 fps	51,100 CUP
	AR2209	.338"	3.300"	65.0	2,695 fps	39,900 CUP	72.5	2,969 fps	52,200 CUP
	AR2213SC	.338"	3.300"	70.0	2,703 fps	41,300 CUP	77.5C	2,965 fps	52,400 CUP
210 GR. NOS PART	AR2206H	.338"	3.280"	54.0	2,609 fps	44,100 CUP	60.0	2,788 fps	53,000 CUP
	AR2208	.338"	3.280"	53.0	2,577 fps	41,800 CUP	58.5	2,784 fps	52,500 CUP
	AR2209	.338"	3.280"	63.0	2,618 fps	41,500 CUP	70.0	2,855 fps	51,800 CUP
	AR2213SC	.338"	3.280"	68.0	2,648 fps	42,600 CUP	75.5C	2,888 fps	52,300 CUP
225 GR. HDY SP	AR2206H	.338"	3.340"	53.0	2,505 fps	43,000 CUP	59.0	2,688 fps	52,400 CUP
	AR2208	.338"	3.340"	52.0	2,481 fps	41,500 CUP	57.5	2,680 fps	52,700 CUP
	AR2209	.338"	3.340"	63.0	2,571 fps	41,100 CUP	69.5	2,785 fps	51,700 CUP
	AR2213SC	.338"	3.340"	67.0	2,542 fps	40,200 CUP	74.5C	2,792 fps	52,000 CUP
250 GR. HDY SP	AR2209	.338"	3.340"	61.0	2,448 fps	42,000 CUP	67.5	2,657 fps	51,900 CUP
	AR2213SC	.338"	3.340"	64.0	2,424 fps	41,900 CUP	71.5C	2,655 fps	52,300 CUP
	AR2217	.338"	3.340"	72.0	2,512 fps	41,500 CUP	76.0C	2,622 fps	46,500 CUP
265 GR. BAR TTSX BT	AR2209	.338"	3.450"	55.8	2,287 fps	48,400 CUP	59.4	2,409 fps	52,200 CUP
	AR2213SC	.338"	3.450"	60.3	2,236 fps	44,000 CUP	67.0C	2,434 fps	52,500 CUP
275 GR. SPR SP	AR2209	.338"	3.340"	57.0	2,259 fps	41,100 CUP	63.5	2,447 fps	52,100 CUP
	AR2213SC	.338"	3.340"	62.0	2,304 fps	42,600 CUP	69.0	2,502 fps	52,300 CUP
	AR2217	.338"	3.340"	70.0	2,402 fps	43,400 CUP	76.0C	2,564 fps	51,100 CUP
300 GR. SIE HPBT	AR2209	.338"	3.340"	56.0	2,202 fps	44,000 CUP	61.5	2,362 fps	52,600 CUP
	AR2213SC	.338"	3.340"	63.0	2,255 fps	45,900 CUP	69.0C	2,422 fps	52,800 CUP
	AR2217	.338"	3.340"	66.0	2,241 fps	42,200 CUP	70.0C	2,347 fps	46,900 CUP

340 Weatherby Magnum				Case: Weatherby Twist: 1:10" Primer: Federal 215			Barrel length: 26" Trim length: 2.815"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. SPR SP	AR2209	.338"	3.560"	77.0	2,777 fps	-	80.0	2,994 fps	-
	AR2213SC	.338"	3.560"	85.0	2,837 fps	-	90.0	3,040 fps	-
225 GR. HDY SP	AR2209	.338"	3.655"	75.0	2,707 fps	-	78.0	2,866 fps	-
	AR2213SC	.338"	3.655"	81.0	2,620 fps	-	86.0	2,889 fps	-
250 GR. SIE SPBT	AR2209	.338"	3.560"	73.0	2,570 fps	-	76.0	2,724 fps	-
	AR2213SC	.338"	3.560"	78.0	2,487 fps	-	83.0	2,784 fps	-
275 GR. SPR SP	AR2209	.338"	3.560"	71.0	2,460 fps	-	74.0	2,575 fps	-

C = Compressed Load; L = Lead Projectile

RIFLE DATA

340 Weatherby Magnum				Case: Weatherby Twist: 1:10" Primer: Federal 215			Barrel length: 26" Trim length: 2.815"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2213SC	.338"	3.560"	75.0	2,377 fps	-	80.0	2,569 fps	-
338 Lapua Magnum				Case: Norma Twist: 1:9" Primer: Federal 215M			Barrel length: 24" Trim length: 2.714"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. BAR TTSX	AR2209	.338"	3.565"	89.3	3,348 fps	54,100 PSI	95.0	3,511 fps	61,800 PSI
	AR2213SC	.338"	3.565"	98.5	3,290 fps	52,900 PSI	104.8C	3,472 fps	61,200 PSI
185 GR. BAR TSX	AR2209	.338"	3.530"	85.0	3,120 fps	53,200 PSI	90.4	3,311 fps	63,400 PSI
	AR2213SC	.338"	3.530"	93.7	3,085 fps	52,500 PSI	100.0	3,281 fps	61,500 PSI
	AR2217	.338"	3.530"	100.0	3,051 fps	49,300 PSI	106.0C	3,218 fps	57,300 PSI
200 GR. SPR SP	AR2209	.338"	3.525"	79.0	2,925 fps	45,900 CUP	85.5	3,099 fps	52,500 CUP
	AR2213SC	.338"	3.525"	83.0	2,855 fps	44,900 CUP	92.0	3,086 fps	53,200 CUP
	AR2217	.338"	3.525"	92.0	2,854 fps	42,300 CUP	102.0C	3,116 fps	52,500 CUP
	AR2225	.338"	3.525"	96.0	2,928 fps	43,700 CUP	104.0C	3,189 fps	52,600 CUP
210 GR. NOS PART	AR2209	.338"	3.525"	76.0	2,834 fps	47,000 CUP	82.0	3,005 fps	52,200 CUP
	AR2213SC	.338"	3.525"	80.0	2,735 fps	44,600 CUP	89.0	3,006 fps	53,000 CUP
	AR2217	.338"	3.525"	90.0	2,800 fps	42,900 CUP	99.5	3,052 fps	52,500 CUP
	AR2225	.338"	3.525"	92.0	2,846 fps	42,100 CUP	102.0C	3,142 fps	52,600 CUP
215 GR. SIE SPBT	AR2209	.338"	3.550"	76.0	2,791 fps	45,000 CUP	84.0	3,015 fps	52,800 CUP
	AR2213SC	.338"	3.550"	82.0	2,763 fps	44,500 CUP	91.0	2,997 fps	53,000 CUP
	AR2217	.338"	3.550"	92.0	2,809 fps	43,500 CUP	102.0C	3,068 fps	53,000 CUP
	AR2225	.338"	3.550"	94.0	2,849 fps	43,700 CUP	104.0C	3,125 fps	51,900 CUP
225 GR. NOS PART	AR2209	.338"	3.550"	74.0	2,715 fps	45,200 CUP	82.5	2,936 fps	52,800 CUP
	AR2213SC	.338"	3.550"	80.0	2,699 fps	44,000 CUP	89.6	2,918 fps	52,900 CUP
	AR2217	.338"	3.550"	91.0	2,713 fps	42,100 CUP	101.0C	2,995 fps	53,100 CUP
	AR2225	.338"	3.550"	92.0	2,744 fps	41,200 CUP	102.0C	3,040 fps	52,300 CUP
250 GR. HDY SP	AR2209	.338"	3.550"	74.0	2,615 fps	48,300 CUP	78.0	2,742 fps	52,300 CUP
	AR2213SC	.338"	3.550"	79.0	2,600 fps	46,100 CUP	85.0	2,740 fps	52,200 CUP
	AR2217	.338"	3.550"	88.0	2,567 fps	41,400 CUP	98.0C	2,838 fps	52,800 CUP
	AR2225	.338"	3.550"	90.0	2,620 fps	43,200 CUP	98.0C	2,853 fps	52,000 CUP
265 GR. BAR TTSX BT	AR2213SC	.338"	3.685"	74.6	2,518 fps	54,400 PSI	79.4	2,642 fps	61,600 PSI
	AR2217	.338"	3.685"	77.7	2,510 fps	52,800 PSI	83.6	2,656 fps	61,100 PSI
	AR2225	.338"	3.685"	76.4	2,483 fps	50,400 PSI	83.0	2,660 fps	60,600 PSI
275 GR. SFT SP	AR2213SC	.338"	3.460"	71.0	2,349 fps	42,800 CUP	79.0	2,572 fps	52,800 CUP
	AR2217	.338"	3.460"	83.0	2,444 fps	43,500 CUP	91.5C	2,648 fps	52,600 CUP
	AR2225	.338"	3.460"	80.0	2,421 fps	41,800 CUP	89.0	2,671 fps	52,700 CUP
300 GR. SIE HPBT	AR2213SC	.338"	3.600"	71.0	2,307 fps	44,400 CUP	79.0	2,511 fps	53,100 CUP
	AR2217	.338"	3.600"	83.0	2,383 fps	43,200 CUP	92.0C	2,590 fps	53,000 CUP
	AR2225	.338"	3.600"	85.0	2,376 fps	41,100 CUP	94.0C	2,654 fps	53,400 CUP

RIFLE DATA

338 Remington Ultra Mag				Case: Remington Twist: 1:10" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.750"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
185 GR. BAR TSX	AR2209	.338"	3.550"	82.0	3,037 fps	51,400 PSI	89.0	3,274 fps	63.8 PSI
	AR2213SC	.338"	3.550"	91.0	3,040 fps	52,000 PSI	97.0	3,232 fps	62,100 PSI
	AR2217	.338"	3.550"	96.0	3,068 fps	52,300 PSI	102.0C	3,241 fps	61,500 PSI
200 GR. SPR SP	AR2209	.338"	3.590"	84.0	3,011 fps	55,400 PSI	89.5	3,156 fps	63,000 PSI
	AR2213SC	.338"	3.590"	91.0	2,979 fps	54,500 PSI	96.5	3,138 fps	63,000 PSI
	AR2217	.338"	3.590"	96.0	2,944 fps	48,300 PSI	102.0C	3,127 fps	58,600 PSI
210 GR. NOS PART	AR2209	.338"	3.540"	82.0	2,941 fps	53,700 PSI	87.0	3,107 fps	62,900 PSI
	AR2213SC	.338"	3.540"	89.0	2,913 fps	54,600 PSI	94.5	3,084 fps	63,100 PSI
	AR2217	.338"	3.540"	96.0	2,952 fps	51,200 PSI	102.0C	3,153 fps	62,900 PSI
215 GR. SIE SPBT	AR2209	.338"	3.590"	83.0	2,940 fps	54,100 PSI	88.0	3,088 fps	62,700 PSI
	AR2213SC	.338"	3.590"	89.0	2,881 fps	51,800 PSI	94.5	3,057 fps	62,800 PSI
	AR2217	.338"	3.590"	96.0	2,947 fps	51,800 PSI	102.0C	3,127 fps	62,800 PSI
225 GR. NOS PART	AR2209	.338"	3.550"	81.0	2,832 fps	54,200 PSI	86.0	2,976 fps	62,600 PSI
	AR2213SC	.338"	3.550"	88.0	2,825 fps	54,400 PSI	93.5	2,977 fps	63,000 PSI
	AR2217	.338"	3.550"	94.0	2,860 fps	51,400 PSI	100.0C	3,058 fps	63,000 PSI
	AR2225	.338"	3.550"	97.0	2,662 fps	52,800 PSI	103.0C	3,055 fps	61,100 PSI
250 GR. HDY SP	AR2209	.338"	3.580"	78.0	2,698 fps	55,700 PSI	83.0	2,820 fps	63,000 PSI
	AR2213SC	.338"	3.580"	84.0	2,662 fps	50,000 PSI	90.0	2,858 fps	62,500 PSI
	AR2217	.338"	3.580"	92.0	2,756 fps	52,400 PSI	98.0C	2,923 fps	62,400 PSI
	AR2225	.338"	3.580"	95.0	2,798 fps	54,600 PSI	101.0C	2,964 fps	64,500 PSI
275 GR. SFT SP	AR2209	.338"	3.490"	73.0	2,507 fps	54,800 PSI	78.0	2,650 fps	62,900 PSI
	AR2213SC	.338"	3.490"	81.0	2,570 fps	55,000 PSI	86.0	2,693 fps	62,500 PSI
	AR2217	.338"	3.490"	86.0	2,602 fps	54,800 PSI	91.0C	2,729 fps	62,700 PSI
	AR2225	.338"	3.490"	88.0	2,649 fps	57,900 PSI	94.0C	2,764 fps	63,100 PSI
300 GR. SIE HPBT	AR2217	.338"	3.580"	82.0	2,443 fps	51,900 PSI	88.5C	2,619 fps	62,500 PSI
	AR2225	.338"	3.580"	84.0	2,501 fps	53,900 PSI	90.5C	2,662 fps	62,200 PSI

338-378 Weatherby Magnum				Case: Weatherby Twist: 1:10" Primer: Federal 215M			Barrel length: 26" Trim length: 2.903"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. BAR XFB	AR2209	.338"	3.650"	99.0	3,387 fps	46,600 CUP	106.0	3,610 fps	53,600 CUP
	AR2213SC	.338"	3.650"	107.0	3,357 fps	47,200 CUP	114.0	3,583 fps	53,500 CUP
	AR2217	.338"	3.650"	116.0	3,374 fps	46,100 CUP	120.0C	3,478 fps	49,200 CUP
175 GR. BAR XFB	AR2209	.338"	3.700"	96.0	3,265 fps	46,500 CUP	102.0	3,478 fps	54,000 CUP
	AR2213SC	.338"	3.700"	103.0	3,200 fps	46,800 CUP	110.0	3,399 fps	53,600 CUP
	AR2217	.338"	3.700"	113.0	3,250 fps	45,600 CUP	120.0C	3,413 fps	51,200 CUP
185 GR. BAR XBTC	AR2209	.338"	3.700"	94.0	3,183 fps	45,600 CUP	100.5	3,368 fps	53,800 CUP
	AR2213SC	.338"	3.700"	102.0	3,212 fps	48,600 CUP	109.0	3,399 fps	54,000 CUP
	AR2217	.338"	3.700"	113.0	3,264 fps	47,700 CUP	120.0C	3,435 fps	53,100 CUP
	AR2225	.338"	3.700"	119.0	3,331 fps	45,900 CUP	123.0C	3,432 fps	48,800 CUP
200 GR. SPR SP	AR2209	.338"	3.740"	92.0	3,046 fps	46,000 CUP	98.5	3,260 fps	54,100 CUP
	AR2213SC	.338"	3.740"	98.0	2,977 fps	43,200 CUP	105.0	3,217 fps	53,700 CUP
	AR2217	.338"	3.740"	110.0	3,138 fps	46,200 CUP	117.0C	3,350 fps	54,000 CUP
	AR2225	.338"	3.740"	116.0	3,227 fps	46,300 CUP	123.0C	3,400 fps	51,400 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

338-378 Weatherby Magnum				Case: Weatherby Twist: 1:10" Primer: Federal 215M			Barrel length: 26" Trim length: 2.903"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
210 GR. NOS PART	AR2209	.338"	3.740"	91.0	3,011 fps	47,400 CUP	96.5	3,176 fps	54,000 CUP
	AR2213SC	.338"	3.740"	97.0	2,955 fps	46,500 CUP	103.0	3,154 fps	54,000 CUP
	AR2217	.338"	3.740"	106.0	2,981 fps	44,500 CUP	113.0	3,192 fps	53,500 CUP
	AR2225	.338"	3.740"	116.0	3,184 fps	48,000 CUP	123.0C	3,362 fps	54,000 CUP
215 GR. SIE SPBT	AR2209	.338"	3.740"	90.0	3,025 fps	49,700 CUP	96.0	3,143 fps	53,900 CUP
	AR2213SC	.338"	3.740"	98.0	2,979 fps	48,300 CUP	104.0	3,140 fps	53,800 CUP
	AR2217	.338"	3.740"	105.0	2,958 fps	45,700 CUP	112.0	3,155 fps	54,000 CUP
	AR2225	.338"	3.740"	115.0	3,149 fps	46,800 CUP	122.0C	3,331 fps	53,900 CUP
225 GR. NOS PART	AR2209	.338"	3.700"	90.0	2,974 fps	48,000 CUP	95.5	3,100 fps	53,900 CUP
	AR2213SC	.338"	3.700"	98.0	2,948 fps	47,500 CUP	104.0	3,107 fps	54,000 CUP
	AR2217	.338"	3.700"	104.0	2,940 fps	46,000 CUP	111.0	3,112 fps	53,800 CUP
	AR2225	.338"	3.700"	112.0	3,039 fps	45,900 CUP	119.0C	3,244 fps	54,300 CUP
250 GR. HDY SP	AR2213SC	.338"	3.660"	95.0	2,785 fps	46,500 CUP	101.0	2,951 fps	53,800 CUP
	AR2217	.338"	3.660"	102.0	2,795 fps	43,900 CUP	109.0	2,989 fps	53,900 CUP
	AR2225	.338"	3.660"	108.0	2,881 fps	43,800 CUP	115.0C	3,072 fps	52,300 CUP
265 GR. BAR TTSX BT	AR2213SC	.338"	3.900"	94.0	2,802 fps	49,000 CUP	99.0	2,898 fps	52,300 CUP
	AR2217	.338"	3.900"	96.5	2,701 fps	42,200 CUP	105.0	2,932 fps	53,100 CUP
	AR2225	.338"	3.900"	95.4	2,680 fps	41,100 CUP	106.0C	2,970 fps	51,200 CUP
275 GR. SFT SP	AR2213SC	.338"	3.640"	92.0	2,666 fps	48,000 CUP	98.0	2,800 fps	53,900 CUP
	AR2217	.338"	3.640"	100.0	2,688 fps	45,100 CUP	106.0	2,837 fps	53,700 CUP
	AR2225	.338"	3.640"	104.0	2,707 fps	41,600 CUP	110.5C	2,934 fps	52,500 CUP
	AR2218	.338"	3.640"	116.0	2,752 fps	46,000 CUP	120.0C	2,843 fps	51,000 CUP
300 GR. SIE HPBT	AR2213SC	.338"	3.750"	89.0	2,596 fps	48,800 CUP	95.0	2,718 fps	54,000 CUP
	AR2217	.338"	3.750"	92.0	2,506 fps	41,300 CUP	101.5	2,747 fps	54,000 CUP
	AR2225	.338"	3.750"	100.0	2,604 fps	41,900 CUP	106.5	2,818 fps	53,000 CUP

348 Winchester				Case: Winchester Twist: 1:12" Primer: CCI 200			Barrel length: 24" Trim length: 2.245"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. HDY JFP	Bench Mark 2	.348"	2.810"	48.0	2,402 fps	30,700 CUP	52.0	2,552 fps	36,200 CUP
	Bench Mark 8208	.348"	2.810"	48.0	2,418 fps	30,900 CUP	53.0	2,579 fps	36,500 CUP
	AR2206H	.348"	2.810"	51.0	2,419 fps	29,700 CUP	55.0	2,591 fps	35,500 CUP
	AR2208	.348"	2.810"	53.0	2,389 fps	29,300 CUP	58.0	2,605 fps	35,800 CUP
	AR2209	.348"	2.810"	61.0	2,382 fps	27,500 CUP	66.0	2,630 fps	35,900 CUP
	AR2213SC	.348"	2.810"	65.0	2,316 fps	26,500 CUP	68.5C	2,467 fps	31,600 CUP
250 GR. BAR FN	Bench Mark 2	.348"	2.760"	44.0	2,087 fps	31,300 CUP	47.5	2,221 fps	35,800 CUP
	AR2206H	.348"	2.760"	45.0	2,074 fps	29,200 CUP	50.0	2,278 fps	36,500 CUP
	AR2208	.348"	2.760"	47.0	2,086 fps	28,800 CUP	52.0	2,283 fps	36,100 CUP
	AR2209	.348"	2.760"	55.0	2,157 fps	31,000 CUP	59.5	2,328 fps	35,700 CUP
	AR2213SC	.348"	2.760"	60.0	2,117 fps	29,800 CUP	65.0C	2,299 fps	35,800 CUP

RIFLE DATA

357 Magnum				Case: Winchester			Barrel length: 18.5"		
				Twist: 1:18.75"			Trim length: 1.285"		
				Primer: Winchester SPM					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
110 GR. HDY XTP	AP70N	.357"	1.590"	7.5	1,585 fps	35,100 CUP	8.0	1,670 fps	40,000 CUP
	AR2205	.357"	1.590"	18.9	2,072 fps	29,600 CUP	21.0	2,233 fps	35,500 CUP
125 GR. HDY XTP	AP70N	.357"	1.590"	7.1	1,423 fps	34,900 CUP	7.6	1,526 fps	39,600 CUP
	AR2205	.357"	1.590"	18.0	1,955 fps	34,400 CUP	20.0	2,122 fps	42,000 CUP
140 GR. HDY XTP	AP70N	.357"	1.590"	6.5	1,282 fps	34,800 CUP	7.0	1,356 fps	40,200 CUP
	AR2205	.357"	1.590"	16.2	1,798 fps	33,100 CUP	18.0	1,930 fps	42,600 CUP
150 GR. NOS JFP	AP70N	.357"	1.590"	6.2	1,096 fps	32,800 CUP	6.7	1,323 fps	39,900 CUP
	AR2205	.357"	1.590"	15.0	1,663 fps	33,100 CUP	16.5	1,775 fps	36,700 CUP
158 GR. LEAD	AP50N	-	-	5.0	1,135 fps	-	5.3	1,200 fps	-
158 GR. HDY XTP	AP70N	.357"	1.580"	5.8	1,059 fps	32,100 CUP	6.3	1,147 fps	39,300 CUP
	AR2205	.357"	1.580"	14.5	1,578 fps	34,600 CUP	16.0	1,668 fps	42,600 CUP
158 GR. LSWC	AP70N	.358"	1.610"	5.5	1,214 fps	23,300 CUP	6.7	1,380 fps	34,600 CUP
	AR2205	.358"	1.610"	10.5	1,288 fps	15,400 CUP	11.5	1,382 fps	17,800 CUP
170 GR. SIE JHC	AR2205	.357"	1.580"	13.0	1,442 fps	32,300 CUP	14.5	1,535 fps	41,200 CUP
180 GR. NOS PART	AR2205	.357"	1.575"	12.7	1,185 fps	36,900 CUP	13.7	1,325 fps	40,900 CUP

35 Remington				Case: Remington			Barrel length: 24"		
				Twist: 1:16"			Trim length: 1.910"		
				Primer: Remington 9 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. SPR FN	AR2207	.358"	2.470"	28.0	1,971 fps	28,600 CUP	32.0	2,172 fps	33,000 CUP
	AR2219	.358"	2.470"	31.0	1,901 fps	28,200 CUP	35.0	2,104 fps	33,100 CUP
	Bench Mark 2	.358"	2.470"	32.5	1,865 fps	29,300 CUP	35.5	2,034 fps	32,300 CUP
	Bench Mark 8208	.358"	2.470"	33.0	1,915 fps	30,900 CUP	37.0	2,074 fps	33,900 CUP
180 GR.	AR2206	-	-	35.0	1,990 fps	-	38.0	2,150 fps	-
180 GR. SPR FN	AR2206H	.358"	2.470"	35.0	1,991 fps	27,500 CUP	39.0	2,232 fps	33,100 CUP
	AR2208	.358"	2.470"	37.0	1,972 fps	27,200 CUP	40.5	2,196 fps	32,500 CUP
200 GR. HDY RN	AR2207	.358"	2.510"	27.0	1,816 fps	26,700 CUP	30.5	1,999 fps	31,700 CUP
	AR2219	.358"	2.510"	31.0	1,866 fps	28,500 CUP	33.8	1,987 fps	33,100 CUP
	Bench Mark 2	.358"	2.510"	32.5	1,847 fps	29,400 CUP	35.5	1,984 fps	32,600 CUP
	Bench Mark 8208	.358"	2.510"	33.0	1,872 fps	31,000 CUP	36.6	1,997 fps	33,600 CUP
200 GR.	AR2206	-	-	34.0	1,845 fps	-	37.0	2,010 fps	-
200 GR. HDY RN	AR2206H	.358"	2.510"	35.0	1,920 fps	26,100 CUP	38.5	2,110 fps	32,300 CUP
	AR2208	.358"	2.510"	36.0	1,966 fps	28,800 CUP	39.5	2,139 fps	33,300 CUP
200 GR. HDY FTX	Bench Mark 8208	.358"	2.540"	33.2	1,799 fps	28,800 CUP	35.3	1,932 fps	32,000 CUP
	AR2206H	.358"	2.540"	33.8	1,839 fps	30,000 CUP	36.0C	1,959 fps	31,900 CUP
	AR2208	.358"	2.540"	36.0	1,845 fps	29,800 CUP	38.3C	1,963 fps	32,000 CUP
220 GR. SPR FN	AR2207	.358"	2.470"	26.0	1,744 fps	30,400 CUP	29.0	1,867 fps	33,400 CUP
	AR2219	.358"	2.470"	29.0	1,692 fps	26,100 CUP	32.5	1,870 fps	32,600 CUP
	Bench Mark 2	.358"	2.470"	31.0	1,725 fps	30,600 CUP	34.0	1,865 fps	33,300 CUP
	Bench Mark 8208	.358"	2.470"	31.0	1,679 fps	30,500 CUP	34.8	1,932 fps	34,500 CUP
220 GR.	AR2206	-	-	32.0	1,710 fps	-	35.0	1,900 fps	-
220 GR. SPR FN	AR2206H	.358"	2.470"	33.0	1,848 fps	29,000 CUP	36.3	2,010 fps	33,600 CUP
	AR2208	.358"	2.470"	34.0	1,803 fps	27,800 CUP	38.0	1,998 fps	33,300 CUP

RIFLE DATA

356 Winchester				Case: Winchester Twist: 1:12" Primer: Winchester LR			Barrel length: 20" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. SPR FP	AR2205	.358"	2.565"	24.0	1,878 fps	-	30.0	2,238 fps	-
	AR2207	.358"	2.565"	40.0	2,441 fps	-	43.0	2,600 fps	-
	AR2219	.358"	2.565"	44.0	2,360 fps	-	47.0	2,552 fps	-
	AR2206H	.358"	2.565"	46.0	2,360 fps	-	49.0	2,535 fps	-
200 GR. SIE RN	AR2207	.358"	2.550"	37.0	2,201 fps	-	40.0	2,383 fps	-
	AR2219	.358"	2.550"	41.0	2,199 fps	-	44.0	2,340 fps	-
	AR2206H	.358"	2.550"	43.0	2,170 fps	-	46.0	2,338 fps	-
250 GR. HDY RN	AR2207	.358"	2.775"	34.0	1,879 fps	-	37.0	2,133 fps	-
	AR2219	.358"	2.775"	38.0	1,866 fps	-	41.0	2,106 fps	-
	AR2206H	.358"	2.775"	40.0	1,919 fps	-	43.0	2,128 fps	-

358 Winchester				Case: Winchester Twist: 1:12" Primer: Winchester LR			Barrel length: 26" Trim length: 2.005"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. BAR X	AR2219	.358"	2.700"	40.0	2,380 fps	46,900 CUP	44.0	2,522 fps	49,700 CUP
	Bench Mark 2	.358"	2.700"	43.0	2,419 fps	44,900 CUP	47.0	2,574 fps	50,300 CUP
	AR2206H	.358"	2.700"	44.0	2,408 fps	41,500 CUP	48.0C	2,603 fps	49,900 CUP
	AR2208	.358"	2.700"	47.0	2,442 fps	42,500 CUP	51.0C	2,594 fps	48,200 CUP
200 GR. HDY SP	AR2219	.358"	2.650"	40.0	2,306 fps	45,400 CUP	44.8	2,491 fps	49,400 CUP
	Bench Mark 2	.358"	2.650"	42.0	2,319 fps	42,700 CUP	46.2	2,494 fps	50,000 CUP
	AR2206H	.358"	2.650"	44.0	2,316 fps	40,200 CUP	48.0C	2,519 fps	49,800 CUP
	AR2208	.358"	2.650"	47.0	2,376 fps	41,100 CUP	51.0C	2,527 fps	47,900 CUP
220 GR. SPR FN SP	AR2219	.358"	2.560"	40.0	2,243 fps	45,700 CUP	44.0	2,371 fps	49,300 CUP
	Bench Mark 2	.358"	2.560"	41.0	2,184 fps	39,400 CUP	45.0	2,361 fps	49,500 CUP
	AR2206H	.358"	2.560"	43.0	2,227 fps	41,500 CUP	47.5C	2,421 fps	50,200 CUP
	AR2208	.358"	2.560"	46.0	2,226 fps	42,800 CUP	50.0C	2,445 fps	50,300 CUP
225 GR. SIE BTSP	AR2219	.358"	2.770"	41.0	2,275 fps	46,000 CUP	43.0	2,372 fps	50,300 CUP
	Bench Mark 2	.358"	2.770"	40.0	2,211 fps	44,200 CUP	44.0	2,354 fps	50,600 CUP
	AR2206H	.358"	2.770"	42.0	2,223 fps	41,700 CUP	46.5	2,422 fps	50,300 CUP
	AR2208	.358"	2.770"	45.0	2,254 fps	40,700 CUP	49.0	2,451 fps	50,600 CUP
250 GR. NOS PART	AR2219	.358"	2.760"	38.0	2,095 fps	43,500 CUP	42.5	2,260 fps	49,900 CUP
	Bench Mark 2	.358"	2.760"	38.0	2,030 fps	39,800 CUP	42.0	2,176 fps	49,400 CUP
	AR2206H	.358"	2.760"	40.0	2,057 fps	40,400 CUP	44.5C	2,257 fps	50,500 CUP
	AR2208	.358"	2.760"	43.0	2,119 fps	39,500 CUP	47.0C	2,278 fps	48,600 CUP

RIFLE DATA

35 Whelen				Case: Remington			Barrel length: 24"		
				Twist: 1:16"			Trim length: 2.484"		
				Primer: Remington 9 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. SPR FP	AR2219	.358"	3.045"	55.0	2,707 fps	44,000 CUP	58.0	2,829 fps	48,500 CUP
	Bench Mark 8208	.358"	3.040"	56.0	2,736 fps	42,600 CUP	60.0C	2,891 fps	47,500 CUP
180 GR.	AR2206	-	-	55.5	2,640 fps	-	58.5	2,785 fps	-
180 GR. SPR FP	AR2206H	.358"	3.045"	56.0	2,649 fps	40,000 CUP	60.0	2,798 fps	46,800 CUP
	AR2208	.358"	3.045"	54.0	2,609 fps	39,900 CUP	60.0C	2,764 fps	42,500 CUP
200 GR. SIE RN	AR2219	.358"	3.050"	52.0	2,540 fps	42,600 CUP	56.0	2,691 fps	48,500 CUP
	Bench Mark 8208	.358"	3.050"	53.0	2,579 fps	41,300 CUP	59.0C	2,802 fps	48,900 CUP
200 GR.	AR2206	-	-	52.5	2,545 fps	-	56.5	2,725 fps	-
200 GR. SIE RN	AR2206H	.358"	3.050"	54.0	2,544 fps	43,500 CUP	57.0	2,689 fps	49,000 CUP
	AR2208	.358"	3.050"	52.0	2,508 fps	40,400 CUP	57.0	2,653 fps	42,300 CUP
220 GR. SPR FP	AR2219	.358"	3.045"	50.0	2,392 fps	43,500 CUP	54.0	2,566 fps	49,500 CUP
	Bench Mark 8208	.358"	3.045"	49.5	2,397 fps	42,600 CUP	55.0	2,623 fps	50,200 CUP
220 GR.	AR2206	-	-	50.5	2,400 fps	-	54.5	2,580 fps	-
220 GR. SPR FP	AR2206H	.358"	3.045"	51.0	2,461 fps	44,000 CUP	55.0	2,588 fps	50,000 CUP
225 GR. SIE SBT	Bench Mark 8208	.358"	3.175"	49.5	2,409 fps	40,500 CUP	55.0C	2,618 fps	49,600 CUP
	AR2206H	.358"	3.175"	49.5	2,404 fps	40,900 CUP	55.0C	2,611 fps	49,200 CUP
	AR2208	.358"	3.175"	51.0	2,442 fps	43,500 CUP	56.0	2,588 fps	46,400 CUP
250 GR. HDY SP	AR2219	.358"	3.220"	48.0	2,249 fps	44,000 CUP	52.0	2,398 fps	48,500 CUP
	Bench Mark 8208	.358"	3.290"	49.0	2,311 fps	44,000 CUP	54.3C	2,515 fps	50,300 CUP
250 GR.	AR2206	-	-	48.0	2,260 fps	-	52.0	2,450 fps	-
250 GR. HDY SP	AR2206H	.358"	3.220"	49.0	2,330 fps	43,700 CUP	53.0	2,455 fps	50,000 CUP
	AR2208	.358"	3.220"	50.0	2,348 fps	44,900 CUP	55.0	2,486 fps	49,900 CUP

350 Remington Magnum				Case: Remington			Barrel length: 26"		
				Twist: 1:16"			Trim length: 2.160"		
				Primer: Remington 9 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. SPR FP	AR2207	.358"	2.740"	48.0	2,622 fps	35,400 CUP	51.0	2,808 fps	48,000 CUP
	AR2219	.358"	2.740"	53.0	2,688 fps	43,000 CUP	58.0	2,894 fps	50,300 CUP
180 GR.	AR2206	-	-	54.0	2,640 fps	-	59.0	2,960 fps	-
180 GR. SPR FP	AR2206H	.358"	2.740"	56.0	2,696 fps	39,000 CUP	61.0	3,015 fps	52,300 CUP
200 GR. HDY SP	AR2207	.358"	2.740"	45.0	2,382 fps	34,200 CUP	48.0	2,512 fps	44,100 CUP
	AR2219	.358"	2.740"	50.0	2,427 fps	39,700 CUP	55.0	2,684 fps	49,300 CUP
200 GR.	AR2206	-	-	52.0	2,565 fps	-	56.0	2,795 fps	-
200 GR. HDY SP	AR2206H	.358"	2.740"	54.5	2,625 fps	37,800 CUP	59.0	2,822 fps	52,100 CUP
220 GR. SPR FP	AR2207	.358"	2.740"	43.0	2,304 fps	36,600 CUP	46.0	2,423 fps	48,500 CUP
	AR2219	.358"	2.740"	48.0	2,293 fps	39,200 CUP	52.0	2,473 fps	49,300 CUP
220 GR.	AR2206	-	-	50.0	2,417 fps	-	54.0	2,610 fps	-
220 GR. SPR FP	AR2206H	.358"	2.740"	51.5	2,534 fps	37,200 CUP	56.0	2,651 fps	51,200 CUP
250 GR. HDY SP	AR2207	.358"	2.930"	39.0	2,069 fps	34,800 CUP	42.0	2,190 fps	45,900 CUP
	AR2219	.358"	2.930"	45.0	2,092 fps	42,000 CUP	49.0	2,333 fps	51,600 CUP
250 GR.	AR2206	-	-	49.0	2,220 fps	-	52.5	2,450 fps	-
250 GR. HDY SP	AR2206H	.358"	2.930"	49.5	2,225 fps	37,800 CUP	54.0	2,497 fps	53,200 CUP

RIFLE DATA

358 Norma Magnum				Case: Norma Twist: 1:16" Primer: Federal 215			Barrel length: 24" Trim length: 2.498"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
180 GR. SPR FP	AR2209	.358"	3.340"	75.0	2,894 fps	-	79.0	3,017 fps	-
200 GR. HDY SP	AR2209	.358"	3.140"	74.0	2,852 fps	-	78.0	2,984 fps	-
250 GR. NOS PART	AR2206H	.358"	3.300"	61.0	2,544 fps	-	65.0	2,736 fps	-
	AR2209	.358"	3.300"	71.0	2,634 fps	-	75.0	2,778 fps	-
358 Shooting Times Alaskan				Case: Remington Twist: 1:12" Primer: Federal 215			Barrel length: 24" Trim length: 2.845"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
225 GR. NOS PART	AR2209	.358"	3.670"	82.0	2,951 fps	-	87.0	3,119 fps	-
250 GR. NOS PART	AR2209	.358"	3.670"	79.0	2,688 fps	-	84.0	2,933 fps	-
	AR2213SC	.358"	3.670"	85.0	2,720 fps	-	90.0	2,984 fps	-
	AR2217	.358"	3.670"	85.0	2,740 fps	-	90.0	2,810 fps	-
9 x 57mm Mauser				Case: Twist: - Primer:			Barrel length: 24" Trim length: -		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
250 GR.	AR2206	-	-	-	-	-	45.0	2,250 fps	-
	AR2208	-	-	-	-	-	49.0	2,250 fps	-
280 GR.	AR2206	-	-	-	-	-	41.5	2,100 fps	-
	AR2208	-	-	-	-	-	45.0	2,100 fps	-
9.3 x 62mm Mauser				Case: Norma Twist: 1:10" Primer: CCI 200			Barrel length: 24" Trim length: 2.431"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
250 GR. BAR TSX	AR2206H	.366"	3.200"	51.0	2,221 fps	37,000 CUP	57.0C	2,484 fps	48,700 CUP
	AR2208	.366"	3.200"	52.0	2,199 fps	33,900 CUP	58.0C	2,436 fps	47,200 CUP
270 GR. SPR SP	AR2206H	.366"	3.280"	52.0	2,244 fps	39,800 CUP	56.5	2,406 fps	48,000 CUP
	AR2208	.366"	3.280"	55.0	2,290 fps	40,100 CUP	59.5	2,440 fps	48,100 CUP
	AR2209	.366"	3.280"	63.0	2,322 fps	38,500 CUP	67.0C	2,438 fps	44,600 CUP
286 GR. NOS PART	AR2206H	.366"	3.225"	51.0	2,131 fps	39,000 CUP	55.5	2,331 fps	47,800 CUP
	AR2208	.366"	3.225"	55.0	2,242 fps	39,800 CUP	59.0C	2,350 fps	47,500 CUP
	AR2209	.366"	3.225"	64.0	2,321 fps	40,800 CUP	67.0C	2,407 fps	46,300 CUP
300 GR. SFT SP	AR2206H	.366"	3.150"	47.0	1,979 fps	40,200 CUP	52.0	2,133 fps	48,200 CUP
	AR2208	.366"	3.150"	52.0	2,083 fps	42,000 CUP	56.0	2,194 fps	47,800 CUP
	AR2209	.366"	3.150"	60.0	2,142 fps	40,000 CUP	64.0C	2,288 fps	48,100 CUP

RIFLE DATA

9.3 x 64mm Brennecke				Case:			Barrel length: 26"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
231-234 GR.	AR2208	-	-	-	-	-	68.0	2,700 fps	-
	AR2209	-	-	-	-	-	73.0	2,700 fps	-
258 GR.	AR2208	-	-	-	-	-	66.5	2,500 fps	-
	AR2209	-	-	-	-	-	70.5	2,500 fps	-
285-286 GR.	AR2208	-	-	-	-	-	63.0	2,300 fps	-
	AR2209	-	-	-	-	-	67.5	2,300 fps	-
293 GR.	AR2208	-	-	-	-	-	62.0	2,250 fps	-
	AR2209	-	-	-	-	-	67.0	2,250 fps	-
9.3 x 74Rmm				Case: Norma			Barrel length: 24"		
				Twist: 1:14"			Trim length: 2.931"		
				Primer: CCI 200					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
250 GR. BAR TSX FB	AR2206H	.366"	3.700"	44.0	2,033 fps	39,000 CUP	48.0	2,155 fps	42,300 CUP
	AR2208	.366"	3.700"	48.0	2,096 fps	39,000 CUP	52.0	2,211 fps	42,400 CUP
	AR2209	.366"	3.700"	59.0	2,150 fps	37,100 CUP	64.5C	2,330 fps	41,800 CUP
270 GR. SPR SP	AR2208	.366"	3.665"	50.0	2,107 fps	36,500 CUP	54.5	2,257 fps	42,000 CUP
	AR2209	.366"	3.665"	64.0	2,292 fps	36,200 CUP	68.0C	2,403 fps	41,600 CUP
286 GR. NOS PART	AR2208	.366"	3.700"	51.0	2,125 fps	38,200 CUP	54.0	2,200 fps	41,800 CUP
	AR2209	.366"	3.700"	61.5	2,211 fps	36,800 CUP	65.5C	2,323 fps	41,500 CUP
	AR2213SC	.366"	3.700"	66.0	2,119 fps	33,400 CUP	70.0C	2,232 fps	36,800 CUP
300 GR. SFT SP	AR2209	.366"	3.640"	58.0	2,111 fps	38,900 CUP	62.0C	2,210 fps	42,100 CUP
	AR2213SC	.366"	3.640"	61.0	1,939 fps	31,900 CUP	67.0C	2,128 fps	40,400 CUP
38-55 Winchester				Case: Winchester			Barrel length: 24"		
				Twist: 1:18"			Trim length: 2.075"		
				Primer: CCI 200					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
255 GR. BAR JFP	AR2207	.375"	2.620"	24.0	1,554 fps	21,400 CUP	28.0	1,788 fps	26,700 CUP
	AR2219	.375"	2.620"	27.0	1,603 fps	25,500 CUP	33.0	1,830 fps	28,200 CUP
375 Winchester				Case: Winchester			Barrel length: 24"		
				Twist: 1:12"			Trim length: 2.010"		
				Primer: Winchester LR					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. SIE JFP	AR2207	.375"	2.530"	35.0	2,288 fps	36,900 CUP	38.0C	2,480 fps	50,600 CUP
	AR2219	.375"	2.530"	39.0	2,223 fps	35,300 CUP	42.0C	2,419 fps	46,900 CUP
220 GR. HDY JFP	AR2207	.375"	2.500"	31.0	2,067 fps	33,700 CUP	34.0	2,233 fps	49,300 CUP
	AR2219	.375"	2.500"	35.0	2,029 fps	35,700 CUP	38.5C	2,236 fps	48,900 CUP

RIFLE DATA

376 Steyr				Case: Homady Twist: 1:12" Primer: Federal 215M			Barrel length: 24" Trim length: 2.350"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
210 GR. BAR XFB	AR2219	.375"	3.100"	63.0	2,864 fps	50,900 PSI	67.5	3,011 fps	59,800 PSI
	Bench Mark 2	.375"	3.100"	63.0	2,774 fps	45,000 PSI	68.0	2,943 fps	54,000 PSI
	AR2206H	.375"	3.100"	64.0	2,765 fps	45,200 PSI	68.0C	2,891 fps	50,600 PSI
	AR2208	.375"	3.100"	65.0	2,668 fps	40,800 PSI	68.0C	2,764 fps	44,800 PSI
225 GR. HDY SP	AR2219	.375"	3.070"	58.0	2,704 fps	53,100 PSI	63.0	2,839 fps	59,900 PSI
	Bench Mark 2	.375"	3.070"	62.0	2,730 fps	50,600 PSI	67.0C	2,890 fps	59,700 PSI
	AR2206H	.375"	3.070"	64.0	2,767 fps	51,000 PSI	68.0C	2,892 fps	58,200 PSI
	AR2208	.375"	3.070"	64.0	2,628 fps	45,600 PSI	68.0C	2,767 fps	52,400 PSI
235 GR. SPR SP	AR2219	.375"	3.060"	59.0	2,709 fps	58,000 PSI	63.0	2,795 fps	59,900 PSI
	Bench Mark 2	.375"	3.060"	62.0	2,689 fps	50,900 PSI	66.5	2,835 fps	59,900 PSI
	AR2206H	.375"	3.060"	64.0	2,708 fps	50,100 PSI	68.0C	2,846 fps	59,000 PSI
	AR2208	.375"	3.060"	64.0	2,618 fps	47,200 PSI	68.0C	2,735 fps	52,300 PSI
250 GR. SIE SP	AR2219	.375"	3.110"	56.0	2,570 fps	55,700 PSI	60.5	2,683 fps	60,100 PSI
	Bench Mark 2	.375"	3.110"	59.0	2,573 fps	51,200 PSI	63.5	2,714 fps	60,100 PSI
	AR2206H	.375"	3.110"	60.0	2,582 fps	48,600 PSI	65.0	2,732 fps	59,800 PSI
	AR2208	.375"	3.110"	64.0	2,589 fps	51,200 PSI	68.0C	2,713 fps	58,000 PSI
260 GR. NOS PART	AR2219	.375"	3.100"	52.0	2,405 fps	54,900 PSI	56.0	2,511 fps	60,200 PSI
	Bench Mark 2	.375"	3.100"	57.0	2,453 fps	51,400 PSI	60.5	2,584 fps	59,700 PSI
	AR2206H	.375"	3.100"	59.0	2,500 fps	53,800 PSI	62.5	2,613 fps	59,400 PSI
	AR2208	.375"	3.100"	62.0	2,466 fps	49,100 PSI	67.5C	2,651 fps	60,000 PSI
270 GR. HDY SP	AR2219	.375"	3.060"	53.0	2,382 fps	50,800 PSI	57.0	2,517 fps	59,600 PSI
	Bench Mark 2	.375"	3.060"	55.0	2,400 fps	50,500 PSI	59.0	2,549 fps	59,500 PSI
	AR2206H	.375"	3.060"	58.0	2,459 fps	52,700 PSI	62.0C	2,580 fps	59,400 PSI
	AR2208	.375"	3.060"	61.0	2,446 fps	50,000 PSI	65.5C	2,610 fps	60,100 PSI
300 GR. SFT SP	AR2219	.375"	3.080"	52.0	2,236 fps	53,600 PSI	55.0	2,322 fps	60,000 PSI
	Bench Mark 2	.375"	3.080"	52.0	2,176 fps	49,000 PSI	56.5	2,343 fps	59,900 PSI
	AR2206H	.375"	3.080"	55.0	2,248 fps	51,900 PSI	59.5	2,388 fps	60,200 PSI
	AR2208	.375"	3.080"	58.0	2,255 fps	50,000 PSI	62.5C	2,410 fps	59,700 PSI

375 H & H Magnum				Case: Winchester Twist: 1:12" Primer: Federal 215M			Barrel length: 24" Trim length: 2.840"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. SIE JFP	Bench Mark 8208	.375"	3.350"	69.0	2,910 fps	47,700 CUP	75.5	3,079 fps	50,200 CUP
	AR2206H	.375"	3.350"	67.0	2,828 fps	42,300 CUP	78.5	3,116 fps	48,700 CUP
	AR2208	.375"	3.350"	65.0	2,839 fps	41,900 CUP	76.0	3,121 fps	50,300 CUP
235 GR. SPR SP	Trail Boss	.375"	3.600"	19.0	1,091 fps	-	26.3	1,144 fps	-
	Bench Mark 8208	.375"	3.600"	61.0	2,632 fps	45,400 CUP	67.0	2,793 fps	50,900 CUP
	AR2206H	.375"	3.600"	69.0	2,743 fps	44,300 CUP	74.0	2,895 fps	50,400 CUP
	AR2208	.375"	3.600"	65.0	2,684 fps	46,700 CUP	70.0	2,819 fps	51,200 CUP
250 GR. SFT SP	Bench Mark 8208	.375"	3.555"	58.0	2,500 fps	45,600 CUP	62.2	2,609 fps	49,900 CUP
	AR2206H	.375"	3.555"	64.0	2,574 fps	44,800 CUP	69.0	2,696 fps	49,700 CUP
	AR2208	.375"	3.555"	62.0	2,531 fps	43,900 CUP	66.5	2,642 fps	49,700 CUP
	AR2209	.375"	3.555"	78.0	2,620 fps	41,500 CUP	83.0C	2,733 fps	44,900 CUP
260 GR. NOS PART	AR2209	.375"	3.580"	70.0	2,551 fps	47,300 CUP	78.0	2,702 fps	51,700 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

375 H & H Magnum				Case: Winchester			Barrel length: 24"		
				Twist: 1:12"			Trim length: 2.840"		
				Primer: Federal 215M					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Gr.	Velocity	Pressure	Gr.	Velocity	Pressure
	AR2213SC	.375"	3.580"	76.0	2,470 fps	43,700 CUP	83.0C	2,622 fps	47,800 CUP
270 GR. BAR TSX	AR2208	.375"	3.550"	58.0	2,369 fps	46,400 CUP	65.0	2,521 fps	50,000 CUP
	AR2209	.375"	3.550"	69.0	2,263 fps	38,300 CUP	75.0C	2,465 fps	42,800 CUP
300 GR. SIE SPBT	AR2206H	.375"	3.600"	61.0	2,411 fps	46,800 CUP	65.0	2,505 fps	50,400 CUP
	AR2208	.375"	3.600"	58.0	2,345 fps	45,200 CUP	62.0	2,454 fps	49,300 CUP
	AR2209	.375"	3.600"	77.0	2,539 fps	45,400 CUP	81.5C	2,645 fps	49,500 CUP
375 Ruger				Case: Hornady			Barrel length: 24"		
				Twist: 1:12"			Trim length: 2.580"		
				Primer: Winchester LRM					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Gr.	Velocity	Pressure	Gr.	Velocity	Pressure
235 GR. BAR TSX	AR2206H	.375"	3.280"	66.7	2,768 fps	52,800 PSI	71.0	2,882 fps	58,500 PSI
	AR2208	.375"	3.280"	69.1	2,709 fps	48,600 PSI	73.5	2,885 fps	59,600 PSI
250 GR. SFT SP	AR2208	.375"	3.270"	67.7	2,657 fps	53,200 PSI	72.0	2,773 fps	59,000 PSI
	AR2209	.375"	3.270"	77.5	2,675 fps	51,400 PSI	82.5	2,834 fps	59,000 PSI
260 GR. NOS AB	AR2208	.375"	3.320"	67.3	2,618 fps	52,200 PSI	71.6	2,749 fps	59,200 PSI
	AR2209	.375"	3.320"	78.0	2,681 fps	50,800 PSI	83.5C	2,837 fps	60,100 PSI
270 GR. HDY SP	AR2209	.375"	3.310"	78.5	2,614 fps	47,800 PSI	83.5C	2,783 fps	58,400 PSI
300 GR. HDY RN	AR2209	.375"	3.280"	75.9	2,510 fps	48,300 PSI	80.7	2,660 fps	59,600 PSI
	AR2213SC	.375"	3.280"	82.7	2,457 fps	48,100 PSI	88.0C	2,611 fps	57,800 PSI
350 GR. BAR TSX FB	AR2209	.375"	3.295"	62.1	2,142 fps	50,900 PSI	66.9C	2,281 fps	59,200 PSI
375 Weatherby Magnum				Case: Weatherby			Barrel length: 24"		
				Twist: 1:12"			Trim length: 2.850"		
				Primer: Federal 215M					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Gr.	Velocity	Pressure	Gr.	Velocity	Pressure
210 GR. BAR XFB	AR2206H	.375"	3.585"	69.0	2,824 fps	48,500 CUP	74.0	2,945 fps	53,500 CUP
	AR2208	.375"	3.585"	70.0	2,782 fps	48,700 CUP	75.0	2,900 fps	53,100 CUP
	AR2209	.375"	3.585"	91.0	3,018 fps	49,600 CUP	95.5C	3,110 fps	52,900 CUP
	AR2213SC	.375"	3.585"	95.0	2,862 fps	43,000 CUP	98.0C	2,938 fps	46,100 CUP
225 GR. HDY SP	AR2206H	.375"	3.585"	69.0	2,789 fps	50,300 CUP	73.5	2,896 fps	53,100 CUP
	AR2208	.375"	3.585"	70.0	2,713 fps	47,600 CUP	74.5	2,850 fps	53,500 CUP
	AR2209	.375"	3.585"	89.0	2,939 fps	48,300 CUP	94.5	3,070 fps	53,400 CUP
	AR2213SC	.375"	3.585"	96.0	2,870 fps	46,000 CUP	99.0C	2,957 fps	49,600 CUP
235 GR. SPR SP	AR2206H	.375"	3.585"	69.0	2,742 fps	50,700 CUP	73.3	2,834 fps	53,100 CUP
	AR2208	.375"	3.585"	69.0	2,669 fps	47,200 CUP	73.5	2,774 fps	52,700 CUP
	AR2209	.375"	3.585"	85.0	2,811 fps	46,400 CUP	90.5	2,952 fps	52,600 CUP
	AR2213SC	.375"	3.585"	94.0	2,813 fps	45,900 CUP	99.0C	2,912 fps	50,500 CUP
250 GR. SIE SPBT	AR2209	.375"	3.600"	83.0	2,765 fps	47,600 CUP	88.0	2,873 fps	52,300 CUP
	AR2213SC	.375"	3.600"	91.0	2,741 fps	46,900 CUP	97.0C	2,871 fps	52,500 CUP
260 GR. NOS PART	AR2209	.375"	3.585"	83.0	2,724 fps	50,800 CUP	88.0	2,818 fps	53,300 CUP
	AR2213SC	.375"	3.585"	90.0	2,692 fps	48,300 CUP	96.0C	2,810 fps	53,200 CUP
270 GR. HDY SP	AR2209	.375"	3.600"	83.0	2,708 fps	49,000 CUP	88.0	2,787 fps	52,800 CUP
	AR2213SC	.375"	3.600"	90.0	2,631 fps	46,900 CUP	96.0C	2,787 fps	53,600 CUP

RIFLE DATA

375 Weatherby Magnum				Case: Weatherby Twist: 1:12" Primer: Federal 215M			Barrel length: 24" Trim length: 2.850"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
285 GR. SPR GSSP	AR2209	.375"	3.580"	81.0	2,617 fps	49,800 CUP	86.5C	2,734 fps	53,400 CUP
	AR2213SC	.375"	3.580"	89.0	2,605 fps	48,600 CUP	94.5C	2,725 fps	53,600 CUP
300 GR. SFT SP	AR2209	.375"	3.560"	80.0	2,544 fps	49,100 CUP	85.0	2,642 fps	53,500 CUP
	AR2213SC	.375"	3.560"	87.0	2,498 fps	47,500 CUP	93.0C	2,649 fps	54,200 CUP

375 Remington Ultra Mag				Case: Remington Twist: 1:12" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.840"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
210 GR. BAR XFB	AR2208	.375"	3.600"	85.0	3,110 fps	54,700 PSI	91.0	3,271 fps	63,100 PSI
	AR2209	.375"	3.600"	96.0	3,078 fps	52,100 PSI	102.5	3,293 fps	63,300 PSI
225 GR. HDY SP	AR2209	.375"	3.560"	95.0	3,027 fps	52,200 PSI	101.0	3,214 fps	62,800 PSI
	AR2213SC	.375"	3.560"	105.0	3,062 fps	56,200 PSI	108.0C	3,137 fps	60,600 PSI
235 GR. SPR SP	AR2209	.375"	3.550"	94.0	3,000 fps	54,600 PSI	100.0	3,163 fps	63,500 PSI
	AR2213SC	.375"	3.550"	102.0	2,957 fps	53,800 PSI	108.0C	3,111 fps	62,800 PSI
250 GR. BAR XFB	AR2209	.375"	3.600"	89.0	2,842 fps	52,800 PSI	94.5	3,010 fps	62,700 PSI
	AR2213SC	.375"	3.600"	98.0	2,850 fps	55,100 PSI	103.0	3,090 fps	62,700 PSI
260 GR. NOS PART	AR2209	.375"	3.570"	88.0	2,819 fps	56,300 PSI	92.5	2,935 fps	62,900 PSI
	AR2213SC	.375"	3.570"	95.0	2,767 fps	54,100 PSI	101.0	2,923 fps	62,900 PSI
270 GR. HDY SP	AR2209	.375"	3.550"	90.0	2,767 fps	52,400 PSI	95.0	2,932 fps	62,600 PSI
	AR2213SC	.375"	3.550"	99.0	2,779 fps	54,200 PSI	104.0C	2,922 fps	62,900 PSI
285 GR. SPR GSSP	AR2209	.375"	3.570"	88.0	2,724 fps	57,500 PSI	92.5	2,836 fps	62,600 PSI
	AR2213SC	.375"	3.570"	96.0	2,706 fps	55,500 PSI	101.0	2,830 fps	62,900 PSI
300 GR. SFT SP	AR2209	.375"	3.550"	85.0	2,598 fps	54,400 PSI	90.0	2,733 fps	62,700 PSI
	AR2213SC	.375"	3.550"	92.0	2,593 fps	54,600 PSI	97.0	2,719 fps	62,500 PSI
	AR2217	.375"	3.550"	103.0	2,628 fps	54,000 PSI	105.0C	2,678 fps	57,600 PSI

378 Weatherby Magnum				Case: Weatherby Twist: 1:12" Primer: Federal 215M			Barrel length: 24" Trim length: 2.850"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
235 GR. SPR SP	AR2209	.375"	3.645"	102.0	3,003 fps	-	109.0	3,224 fps	-
	AR2213SC	.375"	3.645"	107.0	2,972 fps	-	117.0	3,202 fps	-
270 GR. HDY SP	AR2209	.375"	3.645"	99.0	2,779 fps	-	105.0	3,091 fps	-
	AR2213SC	.375"	3.645"	105.0	2,724 fps	-	115.0	3,102 fps	-
300 GR. NOS PART	AR2209	.375"	3.680"	95.0	2,595 fps	-	100.0	2,940 fps	-
	AR2213SC	.375"	3.680"	102.0	2,624 fps	-	112.0	2,926 fps	-

RIFLE DATA

38-40 Winchester (38-40 WCF)				Case:			Barrel length: 26"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
130 GR.	AR2205	-	-	-	-	-	28.0	2,000 fps	-
180 GR.	AR2205	-	-	-	-	-	24.5	1,750 fps	-
404 Jeffery				Case:			Barrel length: 26"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
400 GR.	AR2206	-	-	-	-	-	63.0	2,100 fps	-
	AR2208	-	-	-	-	-	71.0	2,100 fps	-
	AR2209	-	-	-	-	-	80.0	2,100 fps	-
405 Winchester				Case: Hornady			Barrel length: 24"		
				Twist: 1:14"			Trim length: 2.573"		
				Primer: Winchester LR					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. BAR TSX FB	Bench Mark 2	.411"	3.200"	45.0	1,879 fps	34,400 PSI	50.0	2,077 fps	43,000 PSI
	Bench Mark 8208	.411"	3.200"	46.0	1,915 fps	36,700 PSI	51.2	2,101 fps	43,500 PSI
	AR2206H	.411"	3.200"	48.0	1,945 fps	35,500 PSI	53.5C	2,157 fps	44,500 PSI
	AR2208	.411"	3.200"	50.0	1,899 fps	35,200 PSI	55.0C	2,083 fps	42,500 PSI
300 GR. HDY FP	AR2207	.411"	3.085"	37.5	1,925 fps	32,300 PSI	41.5	2,091 fps	43,000 PSI
	AR2219	.411"	3.085"	44.0	1,996 fps	34,800 PSI	49.0	2,150 fps	41,200 PSI
	Bench Mark 2	.411"	3.085"	53.0	2,206 fps	34,100 PSI	59.0	2,404 fps	42,200 PSI
	Bench Mark 8208	.411"	3.085"	50.0	2,086 fps	36,500 PSI	56.0	2,260 fps	42,900 PSI
	AR2206H	.411"	3.085"	53.0	2,114 fps	33,200 PSI	59.0	2,300 fps	40,000 PSI
	AR2208	.411"	3.085"	55.0	2,079 fps	32,600 PSI	61.0	2,275 fps	41,200 PSI
400 GR. WDLGH RNSN	AR2207	.411"	3.230"	33.0	1,582 fps	33,600 PSI	36.5	1,718 fps	43,400 PSI
	Bench Mark 8208	.411"	3.230"	39.0	1,652 fps	36,700 PSI	43.0	1,784 fps	42,900 PSI
	AR2206H	.411"	3.230"	45.5	1,801 fps	37,100 PSI	50.5	1,945 fps	44,900 PSI
	AR2208	.411"	3.230"	48.0	1,790 fps	37,000 PSI	52.0	1,928 fps	44,300 PSI
416 Remington Magnum				Case: Remington			Barrel length: 24"		
				Twist: 1:14"			Trim length: 2.840"		
				Primer: Remington 9 1/2M					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. BAR TSX	Bench Mark 8208	.416"	3.600"	74.0	2,600 fps	44,200 CUP	78.5	2,725 fps	52,700 CUP
	AR2206H	.416"	3.600"	75.0	2,631 fps	43,700 CUP	80.5	2,779 fps	50,300 CUP
	AR2208	.416"	3.600"	79.0	2,610 fps	42,900 CUP	84.0C	2,745 fps	48,600 CUP
350 GR. SPR SP	Trail Boss	.416"	3.590"	20.0	913 fps	19,700 CUP	29.0	1,143 fps	29,900 CUP
	Bench Mark 8208	.416"	3.590"	71.0	2,409 fps	44,600 CUP	77.0	2,551 fps	52,700 CUP
	AR2206H	.416"	3.590"	75.0	2,476 fps	45,000 CUP	80.0	2,601 fps	52,200 CUP
	AR2208	.416"	3.590"	77.0	2,519 fps	46,900 CUP	82.0	2,622 fps	52,400 CUP
400 GR. HDY JRN	Bench Mark 8208	.416"	3.560"	68.0	2,233 fps	46,100 CUP	73.0	2,348 fps	52,800 CUP
	AR2206H	.416"	3.560"	71.0	2,268 fps	46,100 CUP	76.0	2,391 fps	53,300 CUP

RIFLE DATA

416 Remington Magnum				Case: Remington Twist: 1:14" Primer: Remington 9 1/2M			Barrel length: 24" Trim length: 2.840"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2208	.416"	3.560"	72.0	2,276 fps	46,300 CUP	77.0	2,407 fps	53,000 CUP
	AR2209	.416"	3.560"	85.0	2,305 fps	41,400 CUP	88.0C	2,395 fps	46,400 CUP
416 Rigby				Case: Norma Twist: 1:16.5" Primer: Federal 215M			Barrel length: 24" Trim length: 2.890"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. BAR TSX	AR2209	.416"	3.630"	92.0	2,577 fps	35,700 CUP	99.0	2,776 fps	42,900 CUP
	AR2213SC	.416"	3.630"	102.0	2,555 fps	34,900 CUP	109.5	2,725 fps	40,600 CUP
325 GR. BAR XFB	AR2209	.416"	3.660"	94.0	2,549 fps	37,600 CUP	99.0	2,660 fps	43,600 CUP
	AR2213SC	.416"	3.660"	102.0	2,522 fps	37,700 CUP	107.0	2,631 fps	43,700 CUP
350 GR. SPR SP	Trail Boss	.416"	3.640"	25.0	1,139 fps	-	35.0	1,354 fps	-
	AR2209	.416"	3.640"	94.0	2,507 fps	38,000 CUP	99.0	2,641 fps	43,400 CUP
	AR2213SC	.416"	3.640"	101.0	2,459 fps	37,100 CUP	107.0	2,609 fps	43,000 CUP
	AR2217	.416"	3.640"	112.0	2,479 fps	37,400 CUP	116.0C	2,551 fps	39,900 CUP
400 GR. HDY SP	AR2209	.416"	3.700"	89.0	2,333 fps	38,500 CUP	94.0	2,456 fps	43,500 CUP
	AR2213SC	.416"	3.700"	97.0	2,321 fps	38,500 CUP	102.0	2,432 fps	43,300 CUP
	AR2217	.416"	3.700"	110.0	2,371 fps	37,500 CUP	116.0C	2,470 fps	42,200 CUP
416 Weatherby Magnum				Case: Weatherby Twist: 1:14" Primer: Federal 215			Barrel length: 24" Trim length: 2.903"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. BAR XFB	AR2209	.416"	3.780"	117.0	2,917 fps	-	122.0	3,051 fps	-
350 GR. BAR XFB	AR2209	.416"	3.780"	112.0	2,728 fps	-	118.0	2,891 fps	-
400 GR. HDY RN	AR2209	.416"	3.780"	105.0	2,564 fps	-	110.0	2,687 fps	-
	AR2213SC	.416"	3.780"	116.0	2,625 fps	-	120.0	2,703 fps	-
	AR2217	.416"	3.780"	116.0	2,348 fps	-	120.0	2,419 fps	-
44-40 Winchester (44-40 WCF)				Case: Winchester Twist: 1:36" Primer: Winchester LP			Barrel length: 20" Trim length: 1.295"		
WARNING: Data only for use in Winchester Model 92 & 94, Marlin Model 1894 and Remington Model 14.5 rifles in excellent condition. Either slug the bore to determine appropriate bullet diameters or use .427" bullets only. Do not use .429" bullets without first checking barrel bore size.				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. LEAD RNFP	AS30N	.428"	1.600"	4.2	845 fps	8,200 PSI	5.0	924 fps	11,700 PSI
	AP70N	.428"	1.600"	6.6	950 fps	10,000 PSI	7.3	1,069 fps	11,100 PSI
	AR2205	.428"	-	-	-	-	24.0	1,450 fps	-
215 GR. CAST	AR2205	.428"	-	-	-	-	22.0	1,380 fps	-
240 GR. Jacketed	AR2205	.428"	-	-	-	-	20.0	1,370 fps	-

RIFLE DATA

44 Remington Magnum				Case: Winchester			Barrel length: 20"		
				Twist: 1:38"			Trim length: 1.280"		
				Primer: Remington 2 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
165 GR. LRNFP CAST	AS30N	.430"	1.500"	4.4	949 fps	8,500 CUP	5.5	1,147 fps	15,500 CUP
	AP70N	.430"	1.500"	6.5	1,009 fps	7,700 CUP	7.2	1,138 fps	11,500 CUP
180 GR. HDY XTP	AR2205	.430"	1.600"	27.5	2,005 fps	24,000 CUP	29.0	2,114 fps	31,200 CUP
185 GR. LRNFP CAST	AS30N	.430"	1.540"	4.2	859 fps	8,900 CUP	6.0	1,162 fps	18,400 CUP
	AP70N	.430"	1.540"	6.4	993 fps	8,400 CUP	7.4	1,180 fps	12,600 CUP
200 GR. LRNFP CAST	AS30N	.430"	1.570"	4.2	874 fps	8,500 CUP	6.4	1,172 fps	20,200 CUP
	AP70N	.430"	1.570"	6.8	1,065 fps	10,500 CUP	7.8	1,209 fps	15,400 CUP
200 GR. NOS JHP	AR2205	.429"	1.600"	25.0	1,840 fps	29,800 CUP	27.0	1,982 fps	37,800 CUP
210 GR. SIE JHC	AR2205	.430"	1.600"	25.0	1,843 fps	29,200 CUP	27.0	1,970 fps	37,600 CUP
225 GR. SPR JHP	AR2205	.429"	1.575"	23.0	1,721 fps	27,400 CUP	25.5	1,897 fps	35,700 CUP
240 GR. LSWC CAST	AS30N	.430"	1.620"	4.3	839 fps	14,000 CUP	6.2	1,062 fps	21,800 CUP
	AP70N	.430"	1.620"	6.5	927 fps	11,700 CUP	10.2	1,374 fps	37,500 CUP
240 GR. NOS JHP	AR2205	.429"	1.600"	22.0	1,624 fps	28,400 CUP	24.0	1,778 fps	36,100 CUP
270 GR. SPR GDSP	AR2205	.429"	1.600"	20.5	1,476 fps	28,400 CUP	22.5	1,638 fps	37,400 CUP
280 GR. SFT JHP	AR2205	.430"	1.700"	20.0	1,354 fps	27,600 CUP	22.0	1,544 fps	37,800 CUP
300 GR. HDY XTP	AR2205	.430"	1.600"	18.0	1,318 fps	30,600 CUP	20.0	1,452 fps	38,600 CUP

444 Marlin				Case: Remington			Barrel length: 24"		
				Twist: 1:38"			Trim length: 2.215"		
				Primer: Remington 9 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. BAR XFB	AR2207	.429"	2.550"	46.0	2,309 fps	34,400 CUP	51.2C	2,566 fps	42,900 CUP
	AR2219	.429"	2.550"	50.0	2,139 fps	30,200 CUP	52.0C	2,206 fps	33,600 CUP
	Bench Mark 2	.429"	2.550"	50.0	2,040 fps	27,600 CUP	54.0	2,212 fps	35,800 CUP
225 GR. BAR XFB	AR2207	.429"	2.550"	42.2	2,107 fps	32,300 CUP	46.9	2,361 fps	42,300 CUP
	AR2219	.429"	2.550"	47.0	2,029 fps	33,400 CUP	50.0C	2,144 fps	37,000 CUP
	Bench Mark 2	.429"	2.550"	49.0	2,028 fps	34,500 CUP	52.0C	2,127 fps	38,100 CUP
240 GR. SIE JHP	AR2207	.430"	2.535"	44.0	2,206 fps	36,100 CUP	49.2C	2,499 fps	42,100 CUP
	AR2219	.430"	2.535"	49.5	2,049 fps	31,400 CUP	52.0C	2,185 fps	35,900 CUP
	Bench Mark 2	.430"	2.535"	51.0	2,042 fps	31,600 CUP	55.0C	2,234 fps	40,600 CUP
	AR2206H	.430"	2.535"	51.0	1,999 fps	29,600 CUP	53.0C	2,069 fps	33,100 CUP
260 GR. FA JFP	AR2207	.430"	2.550"	41.0	2,016 fps	35,600 CUP	45.5	2,194 fps	40,900 CUP
	AR2219	.430"	2.550"	47.0	1,944 fps	33,400 CUP	52.0C	2,159 fps	41,400 CUP
	AR2206H	.430"	2.550"	50.0	1,913 fps	32,700 CUP	53.0C	2,057 fps	36,800 CUP
265 GR. HDY JFP	AR2207	.430"	2.550"	42.0	2,034 fps	31,100 CUP	47.0	2,273 fps	41,100 CUP
	AR2219	.430"	2.550"	47.0	1,991 fps	33,200 CUP	52.0C	2,164 fps	38,300 CUP
	Bench Mark 2	.430"	2.550"	49.0	1,911 fps	31,000 CUP	53.0C	2,139 fps	40,700 CUP
	Bench Mark 8208	.430"	2.550"	51.0	2,030 fps	34,700 CUP	53.5C	2,135 fps	39,100 CUP
	AR2206H	.430"	2.550"	50.0	1,944 fps	29,300 CUP	53.0C	2,080 fps	34,800 CUP
270 GR. SPR JFP	AR2207	.429"	2.540"	42.0	2,092 fps	34,900 CUP	46.5	2,261 fps	41,400 CUP
	AR2219	.429"	2.540"	47.0	1,973 fps	31,700 CUP	52.0C	2,169 fps	38,100 CUP
	Bench Mark 2	.429"	2.540"	50.0	1,978 fps	33,500 CUP	54.0C	2,166 fps	41,700 CUP
	Bench Mark 8208	.430"	2.540"	51.0	2,019 fps	34,300 CUP	53.5C	2,107 fps	38,300 CUP
	AR2206H	.429"	2.540"	50.0	1,950 fps	29,300 CUP	53.0C	2,080 fps	33,400 CUP
275 GR. BAR FP	AR2207	.430"	2.520"	40.0	1,973 fps	33,500 CUP	44.5	2,172 fps	41,800 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

444 Marlin				Case: Remington Twist: 1:38" Primer: Remington 9 1/2			Barrel length: 24" Trim length: 2.215"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
	AR2219	.430"	2.520"	46.0	1,930 fps	33,800 CUP	51.0C	2,146 fps	43,100 CUP
	Bench Mark 2	.430"	2.520"	48.0	1,930 fps	35,900 CUP	51.0C	2,069 fps	42,300 CUP
	AR2206H	.430"	2.520"	47.0	1,780 fps	27,100 CUP	52.0C	2,021 fps	36,200 CUP
280 GR. SFT HP	AR2207	.430"	2.620"	38.0	1,938 fps	37,300 CUP	42.5	2,108 fps	42,300 CUP
	AR2219	.430"	2.620"	44.5	1,901 fps	33,400 CUP	49.5	2,120 fps	42,400 CUP
	Bench Mark 2	.430"	2.620"	46.0	1,935 fps	38,300 CUP	49.5C	2,070 fps	42,600 CUP
	Bench Mark 8208	.430"	2.620"	48.0	1,942 fps	35,900 CUP	52.0	2,099 fps	41,600 CUP
	AR2206H	.430"	2.620"	47.0	1,875 fps	30,300 CUP	52.0C	2,089 fps	37,600 CUP
	AR2208	.430"	2.620"	49.0	1,914 fps	33,000 CUP	52.0C	2,025 fps	36,800 CUP
300 GR. SFT HP	AR2207	.430"	2.620"	38.5	1,917 fps	36,200 CUP	42.5	2,082 fps	42,500 CUP
	AR2219	.430"	2.620"	43.0	1,776 fps	30,600 CUP	48.0	2,038 fps	42,600 CUP
	Bench Mark 2	.430"	2.620"	46.0	1,899 fps	36,200 CUP	48.5	1,993 fps	41,900 CUP
	Bench Mark 8208	.430"	2.620"	46.0	1,829 fps	35,700 CUP	49.0	2,029 fps	41,600 CUP
	AR2206H	.430"	2.620"	47.0	1,839 fps	33,600 CUP	50.0C	1,931 fps	35,600 CUP
	AR2208	.430"	2.620"	47.0	1,784 fps	30,700 CUP	50.0C	1,914 fps	35,700 CUP
45-70 Government (Trapdoor Rifles)				Case: Winchester Twist: 1:20" Primer: CCI 200			Barrel length: 24" Trim length: 2.100"		
WARNING: This data is intended for Springfield "Trapdoor" 1886, rolling block and antique replica rifles. Pressure limit 28,000 PSI/CUP NOTE: See Single Action Rifle section for more loads with lead bullets.									
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. SIE HP	AR2207	.458"	2.525"	45.0	1,807 fps	16,700 CUP	55.0	2,221 fps	27,600 CUP
300 GR.	Bench Mark 1	-	-	46.0	1,725 fps	-	56.0	2,100 fps	-
300 GR. SIE HP	AR2219	.458"	2.525"	54.0	1,850 fps	18,100 CUP	60.0	2,142 fps	28,000 CUP
	Bench Mark 2	.458"	2.525"	59.5	1,907 fps	19,400 CUP	63.5C	2,113 fps	27,400 CUP
	Bench Mark 8208	.458"	2.525"	54.0	1,728 fps	18,800 CUP	60.0	2,023 fps	25,400 CUP
300 GR.	AR2206	-	-	58.0	1,850 fps	-	62.0C	2,030 fps	-
300 GR. SIE HP	AR2206H	.458"	2.525"	58.0	1,805 fps	16,500 CUP	62.0C	1,974 fps	21,000 CUP
	AR2208	.458"	2.525"	57.0	1,770 fps	16,300 CUP	63.0C	2,020 fps	23,800 CUP
325 GR. HDY FTX	AR2219	.458"	2.590"	36.5	1,401 fps	17,100 CUP	51.5	1,951 fps	26,000 CUP
	Bench Mark 8208	.458"	2.590"	48.5	1,618 fps	18,400 CUP	56.8C	1,936 fps	25,800 CUP
	AR2206H	.458"	2.590"	41.8	1,327 fps	13,700 CUP	53.3C	1,834 fps	23,500 CUP
400 GR.	Bench Mark 1	-	-	42.0	1,520 fps	-	46.0	1,665 fps	-
	AR2206	-	-	47.0	1,600 fps	-	52.0	1,770 fps	-

RIFLE DATA

45-70 Government (Lever Actions)	Case: Winchester	Barrel length: 24"
	Twist: 1:20"	Trim length: 2.100"
	Primer: CCI 200	

WARNING: This data is intended for lever action rifles like the Marlin 1895. Pressure limit 40,000 PSI/CUP

Bullet	Powder	Bullet Diam.	C.O.L.	Start loads			Maximum loads		
				Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. SIE HP	AR2207	.458"	2.525"	55.0	2,221 fps	27,600 CUP	60.0	2,424 fps	40,000 CUP
	AR2219	.458"	2.525"	57.0	2,002 fps	21,400 CUP	63.0C	2,252 fps	32,600 CUP
	Bench Mark 8208	.458"	2.525"	60.0	2,023 fps	25,400 CUP	65.0C	2,240 fps	32,900 CUP
325 GR. HDY FTX	AR2219	.458"	2.590"	51.5	1,951 fps	26,000 CUP	59.4C	2,250 fps	37,600 CUP
350 GR. HDY JRN	AR2207	.458"	2.540"	48.5	2,036 fps	32,200 CUP	54.0	2,191 fps	39,300 CUP
	Bench Mark 2	.458"	2.540"	56.0	1,886 fps	26,900 CUP	60.0C	2,092 fps	39,300 CUP
	Bench Mark 8208	.458"	2.540"	55.0	1,930 fps	26,800 CUP	61.0C	2,152 fps	36,200 CUP
	AR2206H	.458"	2.540"	53.0	1,784 fps	21,700 CUP	59.0C	2,045 fps	32,900 CUP
AR2208	.458"	2.540"	54.0	1,786 fps	21,800 CUP	60.0C	2,013 fps	29,500 CUP	
400 GR. SPR JFP	AR2207	.458"	2.540"	46.0	1,854 fps	29,500 CUP	50.5	2,002 fps	39,400 CUP
400 GR.	Bench Mark 1	-	-	48.0	1,800 fps	-	52.0	1,950 fps	-
400 GR. SPR JFP	AR2219	.458"	2.540"	50.0	1,767 fps	23,700 CUP	55.0C	1,984 fps	39,200 CUP
	Bench Mark 2	.458"	2.540"	55.0	1,856 fps	29,600 CUP	58.5C	1,986 fps	40,000 CUP
400 GR.	AR2206	-	-	54.0	1,865 fps	-	56.0	1,935 fps	-
400 GR. SPR JFP	AR2206H	.458"	2.540"	50.0	1,614 fps	19,200 CUP	55.0C	1,859 fps	26,500 CUP
	AR2208	.458"	2.540"	50.0	1,655 fps	18,600 CUP	55.0C	1,845 fps	25,000 CUP

45-70 Government (Modern Rifles)	Case: Winchester	Barrel length: 24"
	Twist: 1:20"	Trim length: 2.100"
	Primer: CCI 200	

WARNING: This data is for use in Ruger No. 1 and No. 3 single shots, Browning Model 1885 single shot and Siamese Mauser bolt action rifles. Pressure limit 50,000 PSI/CUP

Bullet	Powder	Bullet Diam.	C.O.L.	Start loads			Maximum loads		
				Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. BAR TTSX	AR2207	.458"	2.775"	53.0	2,346 fps	39,800 CUP	56.0C	2,445 fps	46,700 CUP
300 GR. SIE HP	AR2207	.458"	2.525"	59.5	2,394 fps	37,300 CUP	63.0	2,532 fps	50,000 CUP
325 GR. HDY FTX	AR2207	.458"	2.650"	52.0	2,242 fps	37,700 CUP	56.0C	2,378 fps	46,500 CUP
	AR2219	.458"	2.650"	59.4	2,250 fps	37,600 CUP	63.0C	2,375 fps	45,900 CUP
350 GR. HDY JRN	AR2207	.458"	2.540"	50.5	2,104 fps	35,100 CUP	56.0	2,300 fps	50,000 CUP
	AR2219	.458"	2.540"	52.0	1,898 fps	25,800 CUP	57.0C	2,143 fps	41,100 CUP
400 GR. SPR JFP	AR2207	.458"	2.540"	48.0	1,915 fps	31,800 CUP	53.0	2,108 fps	49,100 CUP
500 GR.	AR2206	-	-	50.0	1,665 fps	-	55.0	1,830 fps	-

WWG 457 Mag	Case:	Barrel length: -
	Twist: -	Trim length: -
	Primer:	

Bullet	Powder	Bullet Diam.	C.O.L.	Start loads			Maximum loads		
				Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. REM. JHP	AR2207	.458"	2.660"	56.7	2,296 fps	39,300 CUP	58.2	2,361 fps	43,200 CUP
	AR2219	.458"	2.660"	61.5	2,224 fps	36,400 CUP	64.0C	2,364 fps	42.5 CUP
350 GR. KODIAK	AR2207	.458"	2.660"	51.8	2,069 fps	37,200 CUP	53.8	2,172 fps	44,000 CUP
	AR2219	.458"	2.660"	58.0	2,092 fps	36,300 CUP	60.0C	2,191 fps	43,000 CUP
400 GR. BEAR CRK LD	AR2205	.458"	2.650"	-	-	-	27.0	1,422 fps	24,000 CUP
405 GR. KODIAK	AR2207	.458"	2.650"	44.0	1,818 fps	38,600 CUP	47.2	1,925 fps	43,000 CUP
	AR2219	.458"	2.650"	51.0	1,870 fps	37,200 CUP	53.2	1,975 fps	43,500 CUP

C = Compressed Load; L = Lead Projectile

RIFLE DATA

WWG 457 Mag				Case:			Barrel length: -		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
405 GR. REM JFP	AR2207	.458"	2.660"	48.8	1,926 fps	37,800 CUP	50.8	2,002 fps	43,700 CUP
	AR2219	.458"	2.660"	54.5	1,957 fps	39,900 CUP	57.0	2,045 fps	43,400 CUP
45-90 Winchester				Case:			Barrel length: 24"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR.	AR2207	-	-	-	-	-	36.5	1,500 fps	-
400 GR.	AR2207	-	-	-	-	-	30.5	1,350 fps	-
577/450 Martini Henry				Case:			Barrel length: 24"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
400 GR. LEAD	AR2207	-	-	-	-	-	37.0	1,300 fps	-
450 Nitro Express				Case:			Barrel length: 24"		
				Twist: -			Trim length: -		
				Primer:					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
500 GR.	AR2208	-	-	-	-	-	84.0	2,150 fps	-
	AR2209	-	-	-	-	-	100.0	2,150 fps	-
450 Marlin				Case: Homady			Barrel length: 24"		
				Twist: 1:20"			Trim length: 2.090"		
				Primer: Winchester LR					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
250 GR. BAR XFN	AR2207	.458"	2.510"	51.0	2,253 fps	33,600 PSI	57.0C	2,509 fps	42,200 PSI
300 GR. NOS PART	AR2207	.458"	2.510"	48.0	2,116 fps	33,900 PSI	53.0	2,321 fps	42,200 PSI
	AR2219	.458"	2.510"	56.0	2,160 fps	32,900 PSI	59.0C	2,289 fps	37,300 PSI
350 GR. HDY JFP	AR2207	.458"	2.530"	43.0	1,939 fps	35,700 PSI	48.5	2,119 fps	42,200 PSI
	AR2219	.458"	2.530"	53.0	2,043 fps	36,500 PSI	58.0C	2,196 fps	42,300 PSI
	Bench Mark 2	.458"	2.530"	56.0	2,004 fps	33,300 PSI	59.0C	2,129 fps	38,600 PSI
400 GR. SPR JFP	AR2207	.458"	2.520"	41.0	1,872 fps	41,200 PSI	45.5	1,958 fps	42,600 PSI
	AR2219	.458"	2.520"	48.0	1,862 fps	34,800 PSI	52.5C	2,023 fps	41,900 PSI
	Bench Mark 2	.458"	2.520"	50.0	1,811 fps	33,000 PSI	55.0C	2,010 fps	42,500 PSI
	AR2206H	.458"	2.520"	51.0	1,817 fps	34,700 PSI	56.0C	1,986 fps	42,000 PSI
	AR2208	.458"	2.520"	54.0	1,803 fps	33,500 PSI	57.0C	1,910 fps	38,000 PSI

RIFLE DATA

458 Winchester Magnum				Case: Winchester Twist: 1:14" Primer: CCI 250			Barrel length: 24" Trim length: 2.490"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. MEI LFP	Trail Boss	.458"	2.885"	19.0	1,187 fps	10,800 CUP	23.0	1,282 fps	13,200 CUP
300 GR. BAR TSX	AR2207	.458"	3.200"	68.0	2,565 fps	40,300 CUP	76.0C	2,793 fps	51,300 CUP
	AR2219	.458"	3.200"	77.0	2,584 fps	41,300 CUP	83.0C	2,753 fps	50,500 CUP
	Bench Mark 2	.458"	3.200"	74.0	2,355 fps	30,600 CUP	80.0C	2,507 fps	32,600 CUP
300 GR. BAR TTSX BT	AR2207	.458"	3.300"	68.0	2,591 fps	40,900 CUP	72.5C	2,720 fps	49,100 CUP
	AR2219	.458"	3.300"	71.0	2,447 fps	36,900 CUP	75.0C	2,561 fps	41,200 CUP
350 GR. SPR SP	AR2207	.458"	3.105"	67.0	2,426 fps	44,700 CUP	72.0C	2,548 fps	51,600 CUP
	AR2219	.458"	3.105"	75.0	2,469 fps	40,900 CUP	80.0C	2,589 fps	49,400 CUP
	Bench Mark 2	.458"	3.105"	71.0	2,250 fps	33,500 CUP	79.0C	2,468 fps	42,400 CUP
	Bench Mark 8208	.458"	3.105"	74.0	2,365 fps	35,800 CUP	77.0C	2,452 fps	37,700 CUP
350 GR.	AR2206	-	-	77.0	2,425 fps	-	79.5	2,480 fps	-
350 GR. SPR SP	AR2206H	.458"	3.105"	77.0	2,419 fps	34,600 CUP	80.0C	2,496 fps	38,700 CUP
385 GR. CAST LRN	Trail Boss	.459"	3.000"	16.0	1,020 fps	12,100 CUP	19.0	1,123 fps	16,100 CUP
400 GR. SFT SP	AR2207	.458"	3.220"	61.0	2,197 fps	44,000 CUP	67.0	2,323 fps	51,000 CUP
	AR2219	.458"	3.220"	68.5	2,211 fps	36,500 CUP	76.0C	2,407 fps	51,100 CUP
	Bench Mark 2	.458"	3.220"	70.0	2,138 fps	33,500 CUP	78.0C	2,343 fps	46,600 CUP
	Bench Mark 8208	.458"	3.220"	73.0	2,269 fps	37,100 CUP	77.0C	2,362 fps	44,300 CUP
400 GR.	AR2206	-	-	72.0	2,200 fps	-	77.0C	2,345 fps	-
400 GR. SFT SP	AR2206H	.458"	3.220"	72.0	2,214 fps	33,100 CUP	77.0C	2,349 fps	42,500 CUP
	AR2208	.458"	3.220"	74.0	2,246 fps	34,500 CUP	77.0C	2,310 fps	38,800 CUP
405 GR. CAST LFP	Trail Boss	.458"	2.910"	18.0	1,040 fps	14,500 CUP	21.0	1,082 fps	17,100 CUP
450 GR. SFT SP	AR2207	.458"	3.340"	56.5	2,001 fps	44,700 CUP	60.0	2,092 fps	50,800 CUP
	AR2219	.458"	3.340"	67.0	2,139 fps	43,700 CUP	71.0C	2,220 fps	51,000 CUP
	Bench Mark 2	.458"	3.340"	70.0	2,090 fps	41,600 CUP	75.0C	2,220 fps	48,200 CUP
	Bench Mark 8208	.458"	3.340"	71.0	2,146 fps	40,800 CUP	75.0C	2,235 fps	48,300 CUP
	AR2206H	.458"	3.340"	70.0	2,108 fps	36,100 CUP	74.0C	2,205 fps	43,000 CUP
	AR2208	.458"	3.340"	70.0	2,083 fps	34,200 CUP	74.0C	2,195 fps	41,600 CUP
485 GR. MEI LFP	Trail Boss	.458"	2.925"	13.0	860 fps	15,500 CUP	19.0	962 fps	22,700 CUP
500 GR. HDY JRN	AR2207	.458"	3.310"	53.0	1,887 fps	48,700 CUP	58.5	1,987 fps	51,100 CUP
	AR2219	.458"	3.310"	62.5	1,935 fps	39,400 CUP	69.5C	2,109 fps	52,000 CUP
	Bench Mark 2	.458"	3.310"	68.0	2,017 fps	42,300 CUP	73.0C	2,123 fps	50,300 CUP
	Bench Mark 8208	.458"	3.310"	67.0	1,993 fps	39,400 CUP	73.5C	2,140 fps	49,700 CUP
500 GR.	AR2206	-	-	69.0	2,050 fps	-	73.5C	2,185 fps	-
500 GR. HDY JRN	AR2206H	.458"	3.310"	70.0	2,068 fps	42,000 CUP	74.0C	2,161 fps	50,300 CUP
	AR2208	.458"	3.310"	70.0	2,056 fps	39,400 CUP	74.0C	2,152 fps	48,100 CUP

RIFLE DATA

460 Weatherby Magnum				Case: Weatherby Twist: 1:16" Primer: Federal 215			Barrel length: 26" Trim length: 2.903"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
350 GR. HDY RN	AR2206H	.458"	3.355"	100.0	2,514 fps	-	110.0	2,760 fps	-
	AR2209	.458"	3.355"	115.0	2,595 fps	-	120.0	2,737 fps	-
	AR2213SC	.458"	3.355"	118.0	2,481 fps	-	128.0	2,678 fps	-
400 GR. BAR XFB	AR2206H	.458"	3.710"	97.0	2,404 fps	-	107.0	2,589 fps	-
	AR2209	.458"	3.710"	112.0	2,431 fps	-	118.0	2,610 fps	-
	AR2213SC	.458"	3.710"	117.0	2,434 fps	-	127.0	2,565 fps	-
500 GR. HDY RN	AR2206H	.458"	3.710"	95.0	2,314 fps	-	105.0	2,478 fps	-
	AR2209	.458"	3.710"	108.0	2,371 fps	-	115.0	2,508 fps	-
	AR2213SC	.458"	3.710"	116.0	2,386 fps	-	126.0	2,469 fps	-
600 GR. BAR RN	AR2209	.458"	3.710"	98.0	2,292 fps	-	104.0	2,439 fps	-
	AR2213SC	.458"	3.710"	110.0	2,302 fps	-	115.0	2,457 fps	-
470 Nitro Express				Case: Federal Twist: 1:20" Primer: Federal 215			Barrel length: 23.75" Trim length: 3.240"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
500 GR. WDLGH RN	Trail Boss	.475"	3.875"	-	-	-	45.5	1,257 fps	26,500 PSI
	AR2209	.475"	3.875"	95.0	2,134 fps	36,900 PSI	100.0	2,234 fps	41,700 PSI
	AR2213SC	.475"	3.875"	108.0	2,184 fps	38,000 PSI	112.0	2,247 fps	40,800 PSI
	AR2217	.475"	3.875"	118.0	2,172 fps	33,900 PSI	124.0C	2,300 fps	40,500 PSI
	AR2225	.475"	3.875"	118.0	2,088 fps	30,600 PSI	125.0C	2,202 fps	34,800 PSI
50 Alaskan				Case: Starline Twist: 1:20" Primer: CCI 200			Barrel length: 22" Trim length: 2.090"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
435 GR. LFN W/GC	AR2207	.510"	2.460"	57.0	1,912 fps	26,100 CUP	62.0	2,089 fps	35,500 CUP
	AR2219	.510"	2.460"	62.0	1,856 fps	25,500 CUP	66.0	1,994 fps	33,800 CUP
450 GR. BAR FP	AR2207	.510"	2.420"	52.0	1,772 fps	24,700 CUP	56.0	1,940 fps	35,300 CUP
	AR2219	.510"	2.420"	57.0	1,732 fps	26,200 CUP	60.5	1,876 fps	34,600 CUP
	Bench Mark 2	.510"	2.420"	59.0	1,718 fps	26,400 CUP	63.0	1,878 fps	35,100 CUP
500 GR. JFP	AR2207	.510"	2.500"	51.0	1,719 fps	28,600 CUP	55.0	1,854 fps	34,500 CUP
	AR2219	.510"	2.500"	56.0	1,674 fps	25,900 CUP	59.5	1,819 fps	33,900 CUP
525 GR. LFN W/GC	AR2207	.510"	2.520"	51.0	1,724 fps	27,300 CUP	55.0	1,852 fps	34,800 CUP
	AR2219	.510"	2.520"	56.0	1,691 fps	27,100 CUP	60.0	1,823 fps	34,200 CUP
	Bench Mark 2	.510"	2.520"	59.0	1,694 fps	25,800 CUP	63.0	1,820 fps	34,300 CUP

RIFLE DATA

500 CYRUS				Case: Dakota Arms Twist: 1:20" Primer: Federal 215M			Barrel length: 24" Trim length: 2.230"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
325 GR. BAR XPB	AR2207	.500"	2.895"	75.0	2,622 fps	47,000 CUP	80.0	2,724 fps	51,800 CUP
	AR2219	.500"	2.895"	85.0	2,607 fps	45,700 CUP	90.0C	2,722 fps	48,700 CUP
	Bench Mark 2	.500"	2.895"	86.0	2,572 fps	42,500 CUP	92.0C	2,720 fps	48,400 CUP
350 GR. SIE JHP	AR2219	.500"	2.655"	84.0	2,535 fps	45,500 CUP	90.0	2,654 fps	49,700 CUP
	Bench Mark 2	.500"	2.665"	87.0	2,539 fps	44,000 CUP	93.0C	2,653 fps	49,100 CUP
	AR2206H	.500"	2.655"	89.0	2,447 fps	39,800 CUP	95.0C	2,623 fps	46,900 CUP
400 GR. LEAD Conical w/GC	Trail Boss	.500"	2.710"	25.0	1,283 fps	28,800 CUP	30.0C	1,388 fps	34,500 CUP
400 GR. SIE JSP	AR2219	.500"	2.800"	80.4	2,317 fps	39,600 CUP	85.5	2,455 fps	46,200 CUP
	Bench Mark 2	.500"	2.800"	83.0	2,339 fps	39,800 CUP	89.0	2,501 fps	48,300 CUP
	AR2206H	.500"	2.800"	87.0	2,302 fps	37,100 CUP	93.0C	2,470 fps	43,700 CUP
	AR2208	.500"	2.800"	87.5	2,222 fps	35,300 CUP	93.0C	2,386 fps	40,500 CUP
450 GR. LSWC w/GC	Trail Boss	.501"	2.670"	23.0	1,189 fps	-	28.0C	1,275 fps	29,600 CUP
500 GR. HDY JFP MAG	AR2219	.500"	2.900"	74.3	2,111 fps	41,600 CUP	79.0	2,251 fps	52,000 CUP
	Bench Mark 2	.500"	2.900"	75.0	2,111 fps	42,800 CUP	81.5	2,250 fps	52,300 CUP
	AR2206H	.500"	2.900"	82.0	2,148 fps	40,600 CUP	87.0C	2,291 fps	49,100 CUP
	AR2208	.500"	2.900"	82.7	2,102 fps	39,100 CUP	88.0C	2,242 fps	46,500 CUP
500 Jeffery				Case: Twist: - Primer:			Barrel length: 45" Trim length: -		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
500 GR.	AR2206	-	-	-	-	-	96.0	2,300 fps	-
50 Browning Machine Gun				Case: FNB Twist: 1:16.5" Primer: CCI 35			Barrel length: 45" Trim length: 3.900"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
655 GR. ADI FMJ	AR2218	.510"	5.450"	-	-	-	248.0	3,029 fps	-
750 GR. HDY A-MAX	AR2218	.510"	5.450"	-	-	-	233.0	2,800 fps	-
800 GR. BAR SOLID	AR2218	.510"	5.630"	-	-	-	225.0	2,725 fps	-

SINGLE ACTION DATA

Introduction

Velocities for all cartridges listed are limited by the SAAMI maximum allowable pressures. Minimum loads are also established by pressure, since loads with very low pressure may fail to function in very cold weather, resulting in a bullet becoming lodged in the bore (please see the Warnings section of this guide). The average loss in velocity from the listed pressure barrel data when using a 4⁵/₈ inch barreled revolver is 175 fps. A 7¹/₂ inch revolver will lose approximately 50 fps. Carbines will generally develop velocities similar to those listed in the data. Some carbine/cartridge combinations will exceed the velocities listed. Because of a wide variation in bullet diameter, chamber diameter, cylinder gap, case capacity and manufacturing variations in primers and powder, we suggest that you chronograph loads from your own firearms.

DO NOT LOAD BELOW MINIMUM RECOMMENDATIONS.

Doing so could result in a bullet stuck in the bore.

Long Range Rifle Data

The loads listed below are representative of common calibres used. As there are so many cartridges that could be used, only a few are shown.

DO NOT USE ANY FILLER MATERIAL WITH THESE LOADS,

as fillers can alter pressure and velocities decidedly. Velocities are limited to approximately 1,600 fps due to excessive leading at higher velocities. Use flat point bullets in tubular magazines.

Shotgun

Any load suitable for trap or skeet is suitable for Single Action shooting. Shot loads of 7/8 oz., 1 oz. and 1¹/₈ oz. are all that is required. Heavier loads generate more recoil and are, at best, unpleasant to shoot and, at worst, add time to your score. The loads included in this guide were selected for their performance and for component availability.

Remember:

1. Smooth shells come out of a double-barrelled shotgun better than ribbed shells.
2. NO STEEL SHOT.
3. NO SHOT LARGER THAN #4. Size 6, 7¹/₂ and 8 are most common.
4. CHECK YOUR RELOADS IN YOUR GUN FOR PROPER FUNCTION.

*Damascus barrels should be considered unsafe with ANY powder.



SINGLE ACTION RIFLE

25-20 Winchester				Case: Remington Twist: 1:14" Primer: Winchester SR			Barrel length: 24" Trim length: 1.320"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
71 GR. LRNFP	AR2205	.258"	1.545"	6.0	1,146 fps	13,700 CUP	7.0	1,346 fps	18,200 CUP
85 GR. LRNFP	AR2205	.258"	1.600"	6.0	1,129 fps	18,500 CUP	7.0	1,317 fps	20,500 CUP
30-30 Winchester				Case: Winchester Twist: 1:12" Primer: Winchester LR			Barrel length: 24" Trim length: 2.030"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. CAST LFN	Trail Boss	.308"	2.485"	6.5	997 fps	20,500 CUP	9.0	1,195 fps	29,100 CUP
	AR2207	.308"	2.485"	15.0	1,420 fps	15,000 CUP	17.0	1,616 fps	20,600 CUP
	AR2206H	.308"	2.485"	17.5	1,351 fps	15,200 CUP	21.0	1,562 fps	23,100 CUP
32-40 Winchester				Case: Winchester Twist: 1:16" Primer: Remington 2 1/2			Barrel length: 24" Trim length: 2.120"		
NOTE: See Single Action Rifle section for more loads with lead bullets.									
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
196 GR. HOCH	Trail Boss	.324"	2.555"	5.0	833 fps	12,500 CUP	6.0	935 fps	25,300 CUP
	AR2205	.324"	2.555"	-	-	-	13.0	1,367 fps	18,000 CUP
202 GR. POPE	AR2205	.324"	2.555"	-	-	-	14.0	1,376 fps	15,900 CUP
204 GR. MILLER	AR2205	.324"	2.555"	-	-	-	13.5	1,367 fps	16,300 CUP
38-55 Winchester				Case: Winchester Twist: 1:18" Primer: CCI 200			Barrel length: 24" Trim length: 2.075"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
250 GR. LYMAN CAST	Trail Boss	.376"	2.500"	6.0	842 fps	20,300 CUP	7.0	911 fps	25,600 CUP
	AR2207	.376"	2.500"	18.5	1,408 fps	17,100 CUP	24.0	1,740 fps	26,200 CUP
	AR2219	.376"	2.500"	24.0	1,534 fps	22,500 CUP	27.0	1,692 fps	27,600 CUP
	AR2206H	.376"	2.500"	21.0	1,197 fps	18,200 CUP	26.0	1,600 fps	26,500 CUP
40-65 Winchester				Case: Winchester Twist: 1:16" Primer: Winchester LR			Barrel length: 24" Trim length: 2.095"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
400 GR. LRNFP	Trail Boss	.409"	2.780"	11.0	889 fps	20,000 CUP	12.0	915 fps	21,200 CUP
	AR2205	.409"	2.780"	20.0	1,277 fps	18,900 CUP	23.0	1,410 fps	24,900 CUP
	AR2207	.409"	2.780"	28.0	1,441 fps	21,200 CUP	31.0	1,572 fps	24,700 CUP
	AR2219	.409"	2.780"	30.5	1,398 fps	19,200 CUP	33.0	1,520 fps	23,900 CUP
	Bench Mark 2	.409"	2.780"	29.0	1,321 fps	18,800 CUP	32.5	1,491 fps	25,000 CUP
	Bench Mark 8208	.409"	2.780"	30.8	1,409 fps	24,300 CUP	32.4	1,462 fps	25,100 CUP
	AR2206H	.409"	2.780"	33.0	1,423 fps	19,700 CUP	36.0	1,554 fps	24,200 CUP
AR2208	.409"	2.780"	35.0	1,438 fps	20,100 CUP	38.0	1,558 fps	24,800 CUP	

SINGLE ACTION RIFLE

45-70 Government (Trapdoor Rifles)				Case: Winchester Twist: 1:20" Primer: CCI 200			Barrel length: 24" Trim length: 2.100"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
300 GR. CAST LFP	Trail Boss	.458"	2.465"	14.0	1,199 fps	19,400 CUP	16.5	1,285 fps	20,900 CUP
	AR2207	.458"	2.465"	30.0	1,390 fps	14,400 CUP	35.5	1,641 fps	16,100 CUP
	Bench Mark 2	.458"	2.465"	54.0	1,788 fps	18,300 CUP	58.0	1,940 fps	21,900 CUP
	Bench Mark 8208	.458"	2.465"	51.2	1,723 fps	19,500 CUP	55.0	1,924 fps	24,700 CUP
	AR2206H	.458"	2.465"	45.0	1,572 fps	14,400 CUP	51.0	1,703 fps	15,500 CUP
	AR2208	.458"	2.465"	45.0	1,599 fps	17,800 CUP	55.0	1,880 fps	20,600 CUP
385 GR. CAST LFP	Trail Boss	.458"	2.505"	14.0	1,075 fps	19,400 CUP	16.0	1,142 fps	23,200 CUP
	AR2207	.458"	2.505"	28.0	1,302 fps	13,300 CUP	32.0	1,483 fps	14,700 CUP
	Bench Mark 2	.458"	2.505"	50.0	1,621 fps	16,300 CUP	53.0	1,779 fps	21,300 CUP
	AR2206H	.458"	2.505"	35.0	1,280 fps	11,900 CUP	42.0	1,526 fps	23,100 CUP
	AR2208	.458"	2.505"	42.5	1,537 fps	15,400 CUP	52.5	1,805 fps	21,800 CUP
405 GR. CAST LFP	Trail Boss	.458"	2.540"	12.0	971 fps	24,500 CUP	13.0	1,007 fps	25,600 CUP
	AR2207	.458"	2.540"	27.0	1,251 fps	14,200 CUP	31.0	1,459 fps	17,100 CUP
	Bench Mark 2	.458"	2.540"	47.0	1,564 fps	17,100 CUP	50.0	1,695 fps	22,600 CUP
	Bench Mark 8208	.458"	2.540"	47.9	1,637 fps	21,800 CUP	51.0	1,727 fps	23,600 CUP
	AR2206H	.458"	2.540"	40.0	1,424 fps	14,900 CUP	48.0	1,645 fps	18,900 CUP
	AR2208	.458"	2.540"	40.0	1,392 fps	15,600 CUP	50.0	1,718 fps	20,900 CUP
485 GR. CAST LFP	Trail Boss	.458"	2.540"	8.0	699 fps	17,100 CUP	10.0	804 fps	23,300 CUP
	AR2207	.458"	2.540"	28.0	1,279 fps	16,400 CUP	32.0	1,434 fps	20,400 CUP
	Bench Mark 2	.458"	2.540"	38.0	1,290 fps	15,600 CUP	43.0	1,503 fps	23,400 CUP
45-120 Sharps				Case: Bell Twist: 1:18" Primer: Federal 210M			Barrel length: 24" Trim length: 3.240"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
350 GR. LY #457122	Trail Boss	.458"	3.700"	29.0	1,320 fps	20,500 CUP	32.0	1,371 fps	24,400 CUP
	AR2207	.458"	3.700"	46.0	1,783 fps	22,500 CUP	49.0	1,903 fps	27,500 CUP
	AR2219	.458"	3.700"	50.0	1,717 fps	21,000 CUP	53.0	1,874 fps	27,700 CUP
	Bench Mark 2	.458"	3.700"	53.0	1,809 fps	24,700 CUP	57.0	1,922 fps	26,800 CUP
	AR2206H	.458"	3.700"	59.0	1,875 fps	24,800 CUP	64.0	2,031 fps	26,900 CUP
405 GR. LY #457193	Trail Boss	.458"	3.730"	26.0	1,156 fps	18,300 CUP	30.0	1,252 fps	25,500 CUP
	AR2207	.458"	3.730"	45.0	1,708 fps	24,700 CUP	48.0	1,818 fps	27,200 CUP
	AR2219	.458"	3.730"	49.0	1,665 fps	23,200 CUP	52.5	1,793 fps	27,900 CUP
	Bench Mark 2	.458"	3.730"	53.0	1,805 fps	26,500 CUP	58.0	1,917 fps	27,200 CUP
	AR2206H	.458"	3.730"	58.0	1,849 fps	26,000 CUP	64.0	2,012 fps	28,300 CUP
	AR2208	.458"	3.730"	59.0	1,763 fps	24,200 CUP	63.0	1,858 fps	28,200 CUP
500 GR. LY #457125	Trail Boss	.458"	3.290"	26.0	1,050 fps	20,100 CUP	29.0	1,105 fps	24,300 CUP
	AR2207	.458"	3.920"	42.0	1,523 fps	25,200 CUP	46.5	1,650 fps	28,300 CUP
	AR2219	.458"	3.920"	48.0	1,568 fps	25,400 CUP	52.0	1,695 fps	28,300 CUP
	Bench Mark 2	.458"	3.920"	50.0	1,607 fps	26,600 CUP	54.5	1,747 fps	28,200 CUP
	AR2206H	.458"	3.920"	54.0	1,641 fps	24,400 CUP	60.0	1,809 fps	28,500 CUP
	AR2208	.458"	3.920"	56.0	1,618 fps	24,200 CUP	61.0	1,737 fps	27,900 CUP

SINGLE ACTION RIFLE

50-140 Sharps				Case: Bell Twist: 1:22" Primer: Federal 210M			Barrel length: 24" Trim length: 3.230"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
425 GR. LY #515141	AR2208	.512"	3.800"	95.0	2,127 fps	23,600 CUP	102.5	2,294 fps	28,100 CUP
	AR2209	.512"	3.800"	105.0	2,033 fps	21,600 CUP	114.0	2,242 fps	26,700 CUP
	AR2213SC	.512"	3.800"	118.0	2,079 fps	22,800 CUP	125.0	2,209 fps	26,300 CUP
515 GR. LY #515142	AR2208	.512"	3.750"	87.0	1,958 fps	24,000 CUP	95.0	2,088 fps	27,900 CUP
	AR2209	.512"	3.750"	101.0	1,916 fps	22,000 CUP	108.0	2,091 fps	27,200 CUP
	AR2213SC	.512"	3.750"	112.0	1,956 fps	23,200 CUP	118.0	2,085 fps	27,500 CUP

SINGLE ACTION PISTOL

32 H&R Magnum				Case: Federal			Barrel length: 5"		
				Twist: 1:16"			Trim length: 1.070"		
				Primer: Federal 100					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
90 GR. HDY LSWC	Trail Boss	.314"	1.350"	2.4	751 fps	10,700 CUP	2.8	785 fps	11,300 CUP
	AP70N	.314"	1.350"	3.0	819 fps	8,400 CUP	3.2	908 fps	11,500 CUP
32-20 Winchester				Case: Remington			Barrel length: 5.5"		
				Twist: 1:20"			Trim length: 1.305"		
				Primer: Winchester SP					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
90 GR. CAST LRNFP	Trail Boss	.314"	1.490"	2.5	785 fps	11,400 CUP	2.8	830 fps	13,900 CUP
115 GR. CAST LRNFP	Trail Boss	.314"	1.580"	2.2	642 fps	11,300 CUP	2.5	707 fps	15,300 CUP
	AP70N	.314"	1.580"	3.0	808 fps	14,200 CUP	3.2	869 fps	16,000 CUP
38 Special				Case: Winchester			Barrel length: 7.7"		
				Twist: 1:18.75"			Trim length: 1.145"		
				Primer: Winchester SP					
NOTE: See Single Action Pistol section for more loads with lead bullets.									
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
90 GR. CAST LRNFP	AS30N	.359"	1.325"	2.5	705 fps	7,900 PSI	3.0	938 fps	11,400 PSI
	Trail Boss	.359"	1.325"	3.0	740 fps	7,800 PSI	5.0	904 fps	8,100 PSI
125 GR. CAST LRNFP	AS30N	.358"	1.445"	2.5	810 fps	8,400 CUP	3.5	978 fps	16,900 CUP
	Trail Boss	.358"	1.445"	3.0	753 fps	11,600 PSI	5.3	952 fps	13,400 PSI
	AP70N	.358"	1.445"	4.3	872 fps	8,700 CUP	4.7	1,036 fps	16,800 CUP
130 GR. MEI CAST LRNFP	AS30N	.358"	1.460"	3.0	828 fps	12,500 PSI	3.5	924 fps	16,100 PSI
	AP70N	.358"	1.460"	4.7	957 fps	13,500 PSI	5.2	1,056 fps	16,000 PSI
135 GR. CAST LRNFP	AS30N	.358"	1.418"	2.6	767 fps	11,400 CUP	3.3	910 fps	16,200 CUP
135 GR. LEAD WC *	AP50N	.358"	1.278"	2.8	645 fps	9,450 PSI	3.5	845 fps	16,850 PSI
135 GR. CAST LRNFP	AP70N	.358"	1.418"	4.1	924 fps	13,400 CUP	4.6	1,025 fps	16,900 CUP
158 GR. CAST LSWC	AS30N	.358"	1.475"	2.8	812 fps	12,900 CUP	3.1	871 fps	15,100 CUP
	Trail Boss	.357"	1.475"	2.7	661 fps	11,400 PSI	4.2	804 fps	13,700 PSI
158 GR. CAST LSWC *	AP50N	.358"	1.470"	3.2	660 fps	8,200 PSI	3.8	800 fps	16,600 PSI
158 GR. CAST LSWC	AP70N	.358"	1.475"	3.5	756 fps	9,600 CUP	4.5	974 fps	16,700 CUP

* 4" Vented Barrel

SINGLE ACTION PISTOL

357 Magnum				Case: Winchester Twist: 1:18.75" Primer: Winchester SPM			Barrel length: 10" Trim length: 1.285"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
90 GR. CAST LRNFP	AS30N	.359"	1.560"	2.7	780 fps	6,000 CUP	3.5	1,106 fps	12,500 CUP
	Trail Boss	.359"	1.560"	3.5	969 fps	6,800 CUP	5.0	1,121 fps	10,700 CUP
125 GR. CAST LRNFP	AS30N	.358"	1.580"	3.5	984 fps	11,900 CUP	5.3	1,260 fps	33,000 CUP
	Trail Boss	.358"	1.580"	3.5	874 fps	14,900 CUP	5.3	1,035 fps	17,900 CUP
	AP70N	.358"	1.580"	4.8	1,046 fps	11,000 CUP	6.8	1,401 fps	34,200 CUP
135 GR. CAST LRNFP	AS30N	.358"	1.580"	3.4	914 fps	12,200 CUP	5.1	1,207 fps	30,200 CUP
135 GR. CAST LWC *	AP50N	.358"	-	4.0	870 fps	16,700 PSI	5.2	1,065 fps	31,900 PSI
135 GR. CAST LRNFP	AP70N	.358"	1.580"	4.8	986 fps	11,700 CUP	6.5	1,314 fps	27,800 CUP
158 GR. CAST LSWC	AS30N	.358"	1.610"	3.2	867 fps	14,400 CUP	4.6	1,079 fps	33,600 CUP
	Trail Boss	.357"	1.610"	3.2	754 fps	16,500 CUP	4.2	865 fps	20,400 CUP
158 GR. CAST LSWC *	AP50N	.358"	1.610"	5.0	925 fps	21,800 PSI	5.8	1,030 fps	33,000 PSI
158 GR. CAST LSWC	AP70N	.358"	1.610"	4.0	890 fps	15,700 CUP	6.2	1,247 fps	33,400 CUP
* 4" Vented Barrel									
38-40 Winchester				Case: Winchester Twist: 1:36" Primer: Winchester LP			Barrel length: 5.5" Trim length: 1.295"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
140 GR. CAST LRNFP	AS30N	.401"	1.600"	4.0	778 fps	4,900 PSI	5.0	960 fps	10,100 PSI
180 GR. CAST LRNFP	AS30N	.401"	1.600"	4.7	760 fps	8,700 PSI	5.5	889 fps	13,500 PSI
	Trail Boss	.401"	1.600"	4.5	694 fps	7,300 PSI	5.5	800 fps	9,900 PSI
	AP70N	.401"	1.600"	6.9	813 fps	8,200 PSI	7.5	955 fps	11,900 PSI
44 Russian				Case: Starline Twist: 1:20" Primer: Winchester LP			Barrel length: 5" Trim length: 0.960"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
165 GR. LRNFP	AS30N	.430"	1.165"	3.0	776 fps	7,300 CUP	4.0	979 fps	11,100 CUP
	Trail Boss	.430"	1.165"	3.3	742 fps	7,600 CUP	4.5	878 fps	11,600 CUP
200 GR. LRNFP	AS30N	.430"	1.245"	3.2	747 fps	8,000 CUP	3.7	837 fps	11,100 CUP
	Trail Boss	.430"	1.245"	3.0	647 fps	7,900 CUP	3.9	747 fps	10,400 CUP
	AP70N	.430"	1.245"	4.8	816 fps	8,100 CUP	5.7	970 fps	11,500 CUP
240 GR. LRNFP	AS30N	.430"	1.275"	3.0	711 fps	9,400 CUP	3.5	769 fps	10,700 CUP
	Trail Boss	.430"	1.275"	3.0	604 fps	8,800 CUP	3.5	661 fps	10,000 CUP
	AP70N	.430"	1.275"	3.8	679 fps	6,400 CUP	4.6	841 fps	11,000 CUP

SINGLE ACTION PISTOL

44 S&W Special				Case: Starline			Barrel length: 8"		
				Twist: 1:20"			Trim length: 1.155"		
				Primer: Winchester LP					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
165 GR. CAST LRNFP	AS30N	.430"	1.365"	3.6	836 fps	6,000 CUP	4.6	1,009 fps	13,400 CUP
	Trail Boss	.430"	1.365"	4.8	865 fps	10,700 CUP	7.0	1,005 fps	12,100 CUP
	AP70N	.430"	1.365"	5.5	851 fps	5,700 CUP	6.3	1,042 fps	10,900 CUP
185 GR. CAST LRNFP	AS30N	.430"	1.400"	3.5	810 fps	7,800 CUP	4.2	930 fps	13,200 CUP
	Trail Boss	.430"	1.400"	4.5	791 fps	10,400 CUP	6.6	944 fps	12,600 CUP
	AP70N	.430"	1.400"	5.4	823 fps	7,700 CUP	6.4	1,031 fps	13,900 CUP
200 GR. CAST LRNFP	AS30N	.430"	1.450"	3.5	748 fps	7,800 CUP	4.5	891 fps	14,000 CUP
	Trail Boss	.430"	1.450"	4.3	757 fps	8,700 CUP	6.3	885 fps	13,200 CUP
	AP70N	.430"	1.450"	5.5	802 fps	8,200 CUP	6.5	960 fps	12,900 CUP
	AR2205	.430"	1.450"	13.0	879 fps	8,600 CUP	15.0	1,051 fps	13,100 CUP
240 GR. CAST LSWC	AS30N	.430"	1.450"	3.2	669 fps	9,000 CUP	4.0	771 fps	13,500 CUP
	Trail Boss	.430"	1.450"	4.0	673 fps	9,700 CUP	5.2	763 fps	11,700 CUP
	AP70N	.430"	1.450"	4.9	721 fps	8,000 CUP	5.6	873 fps	13,300 CUP
44-40 Winchester				Case: Winchester			Barrel length: 6"		
				Twist: 1:36"			Trim length: 1.295"		
				Primer: Winchester LP					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. CAST LFP	AS30N	.430"	1.600"	4.2	747 fps	7,400 PSI	5.5	916 fps	12,700 PSI
200 GR. CAST LRNFP	AS30N	.430"	1.600"	4.2	648 fps	8,200 PSI	5.0	765 fps	11,700 PSI
	Trail Boss	.430"	1.600"	5.5	723 fps	7,800 PSI	6.5	826 fps	11,900 PSI
	AP70N	.430"	1.600"	6.6	722 fps	10,000 PSI	7.3	777 fps	11,100 PSI
200 GR. CAST LSWC	AP50N	.428"	1.620"	5.5	755 fps	4,200 PSI	6.5	920 fps	8,900 PSI
215 GR. CAST LSWC	AP50N	.428"	1.620"	5.3	765 fps	4,450 PSI	6.4	940 fps	13,800 PSI
44 Remington Magnum				Case: Winchester			Barrel length: 8.275"		
				Twist: 1:20"			Trim length: 1.280"		
				Primer: Remington 2 1/2					
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
165 GR. LRNFP CAST	AS30N	.430"	1.500"	4.4	910 fps	8,500 CUP	5.5	1,064 fps	15,500 CUP
	Trail Boss	.430"	1.500"	6.0	960 fps	17,200 PSI	8.0	1,086 fps	18,800 PSI
	AP70N	.430"	1.500"	6.5	918 fps	7,700 CUP	7.2	1,059 fps	11,500 CUP
185 GR. LRNFP CAST	AS30N	.430"	1.540"	4.2	839 fps	8,900 CUP	6.0	1,043 fps	18,400 CUP
	Trail Boss	.430"	1.540"	6.2	936 fps	19,500 PSI	7.8	1,050 fps	21,100 PSI
	AP70N	.430"	1.540"	6.4	919 fps	8,400 CUP	7.4	1,070 fps	12,600 CUP
200 GR. LRNFP CAST	AS30N	.430"	1.570"	4.2	785 fps	8,500 CUP	6.4	1,028 fps	20,200 CUP
	Trail Boss	.430"	1.570"	6.1	890 fps	17,900 PSI	7.7	988 fps	20,700 PSI
	AP70N	.430"	1.570"	6.8	897 fps	10,500 CUP	7.8	1,045 fps	15,400 CUP
230 GR. LSWC	AP50N	.430"	1.614"	5.5	835 fps	15,300 PSI	8.5	1,130 fps	32,000 PSI
240 GR. LSWC CAST	AS30N	.430"	1.620"	4.3	759 fps	14,000 CUP	6.2	940 fps	21,800 CUP
	Trail Boss	.430"	1.620"	6.0	828 fps	19,100 PSI	7.3	917 fps	21,600 PSI
	AP70N	.430"	1.620"	6.5	852 fps	11,700 CUP	10.2	1,276 fps	37,500 CUP

SINGLE ACTION PISTOL

45 S&W (Schofield)				Case: Starline Twist: 1:16" Primer: Winchester LP			Barrel length: 5" Trim length: 1.095"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
200 GR. LRNFP	AS30N	.452"	1.430"	4.0	733 fps	8,300 CUP	5.0	845 fps	13,100 CUP
	Trail Boss	.452"	1.430"	4.0	684 fps	9,000 CUP	5.0	791 fps	13,200 CUP
	AP70N	.452"	1.430"	6.0	773 fps	9,100 CUP	7.0	938 fps	13,100 CUP
230 GR. LRNFP	AS30N	.452"	1.430"	4.0	697 fps	9,400 CUP	4.7	783 fps	13,600 CUP
	Trail Boss	.452"	1.430"	4.0	649 fps	9,000 CUP	5.0	739 fps	13,000 CUP
	AP70N	.452"	1.430"	5.5	738 fps	9,400 CUP	6.0	816 fps	11,400 CUP
250 GR. LRNFP	AS30N	.452"	1.430"	4.0	674 fps	11,000 CUP	4.2	710 fps	12,500 CUP
	Trail Boss	.452"	1.430"	3.5	537 fps	7,300 CUP	4.8	685 fps	13,200 CUP
	AP70N	.452"	1.430"	6.0	724 fps	9,900 CUP	6.3	830 fps	13,800 CUP
45 Colt				Case: Winchester Twist: 1:16" Primer: Winchester LP			Barrel length: 7.26" Trim length: 1.280"		
				Start loads			Maximum loads		
Bullet	Powder	Bullet Diam.	C.O.L.	Grs.	Velocity	Pressure	Grs.	Velocity	Pressure
160 GR. CAST LRNFP	AS30N	.452"	1.500"	5.0	907 fps	7,500 CUP	6.4	1,083 fps	13,500 CUP
	Trail Boss	.452"	1.500"	7.0	903 fps	8,100 PSI	8.5	1,018 fps	10,800 PSI
	AP70N	.452"	1.500"	6.5	798 fps	7,400 CUP	9.5	1,197 fps	12,900 CUP
180 GR. CAST LRNFP	AS30N	.452"	1.540"	4.8	840 fps	7,900 CUP	6.0	1,016 fps	13,800 CUP
	Trail Boss	.452"	1.540"	6.0	818 fps	9,400 PSI	7.3	935 fps	12,700 PSI
	AP70N	.452"	1.540"	6.5	791 fps	7,100 CUP	9.2	1,161 fps	13,900 CUP
200 GR. CAST LRNFP	AS30N	.452"	1.600"	4.6	777 fps	5,900 CUP	5.9	931 fps	13,100 CUP
	Trail Boss	.452"	1.600"	5.5	706 fps	8,000 PSI	6.5	855 fps	11,000 PSI
200 GR. CAST LSWC	AP50N	.452"	1.639"	5.5	750 fps	7,600 PSI	7.0	995 fps	12,300 PSI
200 GR. CAST LRNFP	AP70N	.452"	1.600"	6.4	749 fps	5,700 CUP	8.8	1,067 fps	13,600 CUP
215 GR. CAST LRNFP	AS30N	.452"	1.650"	4.6	754 fps	6,400 CUP	5.7	889 fps	13,400 CUP
	Trail Boss	.452"	1.650"	5.5	725 fps	8,100 PSI	6.5	820 fps	10,300 PSI
	AP70N	.452"	1.650"	6.8	777 fps	6,300 CUP	8.6	1,001 fps	13,800 CUP
230 GR. CAST LRNFP	AS30N	.452"	1.580"	4.4	734 fps	7,600 CUP	5.4	865 fps	13,900 CUP
	Trail Boss	.452"	1.580"	5.5	685 fps	9,100 PSI	6.5	802 fps	12,400 PSI
	AP70N	.452"	1.580"	6.5	761 fps	7,600 CUP	8.1	975 fps	13,800 CUP
250 GR. CAST LRNFP	AS30N	.452"	1.600"	4.2	713 fps	8,500 CUP	5.1	817 fps	13,400 CUP
	Trail Boss	.452"	1.600"	4.5	606 fps	8,800 PSI	5.8	727 fps	12,700 PSI
	AP70N	.452"	1.600"	6.5	742 fps	9,200 CUP	7.8	941 fps	13,000 CUP
255 GR. CAST LSWC	AP50N	.452"	1.622"	6.0	750 fps	7,900 PSI	7.0	895 fps	11,500 PSI
	AP100	.452"	1.622"	11.0	835 fps	10,800 PSI	12.0	975 fps	16,700 PSI

SINGLE ACTION SHOTGUN

12 Gauge 2¾" Remington Premier Plastic Shells

28g (1 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AS30N	16.8	6,600 lup	1,125 fps	Rem. TGT 12	Rem. 209P
	15.7	7,100 lup	1,125 fps	WAA12SL	WIN209
	17.9	7,400 lup	1,180 fps	Rem. TGT 12	Rem. 209P
	17.0	8,200 lup	1,180 fps	WAA12SL	WIN209
	18.9	8,100 lup	1,235 fps	Rem. TGT 12	Rem. 209P
	18.4	9,500 lup	1,235 fps	WAA12SL	WIN209
	19.9	8,800 lup	1,290 fps	Rem. TGT 12	Rem. 209P
	19.8	10,700 lup	1,290 fps	WAA12SL	WIN209
AS50N	20.2	6,800 lup	1,125 fps	Rem. TGT 12	Rem. 209P
	18.4	7,100 lup	1,125 fps	WAA12SL	WIN209
	20.9	7,700 lup	1,180 fps	Rem. TGT 12	Rem. 209P
	20.1	8,600 lup	1,180 fps	WAA12SL	WIN209
	21.4	8,900 lup	1,235 fps	Rem. TGT 12	Rem. 209P
	21.0	10,000 lup	1,235 fps	WAA12SL	WIN209

12 Gauge 2¾" Remington Premier Plastic Shells

32g (1 1/8 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AS30N	16.9	6,900 lup	1,090 fps	Rem. Fig 8	Rem. 209P
	16.6	6,400 lup	1,090 fps	Windjammer	CCI209
	18.0	7,900 lup	1,145 fps	Rem. Fig 8	Rem. 209P
	18.0	7,500 lup	1,145 fps	Windjammer	CCI209
	19.2	9,000 lup	1,200 fps	Rem. Fig 8	Rem. 209P
	19.4	8,600 lup	1,200 fps	Windjammer	CCI209
AS50N	18.6	6,400 lup	1,090 fps	Rem. Fig 8	Rem. 209P
	18.3	7,000 lup	1,090 fps	WAA12	Rem. 209P
	19.2	6,100 lup	1,090 fps	Windjammer	CCI209
	19.6	7,000 lup	1,145 fps	Rem. Fig 8	Rem. 209P
	18.8	7,600 lup	1,145 fps	WAA12	Rem. 209P
	19.8	6,500 lup	1,145 fps	Windjammer	CCI209
	20.9	7,500 lup	1,200 fps	Rem. Fig 8	Rem. 209P
	19.7	8,700 lup	1,200 fps	WAA12	Rem. 209P
	21.2	7,500 lup	1,200 fps	Windjammer	CCI209
	21.7	9,100 lup	1,255 fps	Rem. Fig 8	Rem. 209P
	20.9	10,400 lup	1,255 fps	WAA12	Rem. 209P
	22.3	8,300 lup	1,255 fps	Windjammer	CCI209
AP70N	22.5	8,900 PSI	1,200 fps	Rem. Fig 8	WIN209
	21.5	9,800 PSI	1,200 fps	WAA12	WIN209
	23.2	8,400 PSI	1,200 fps	Windjammer	CCI209
	23.7	9,900 PSI	1,255 fps	Rem. Fig 8	WIN209
	23.0	10,700 PSI	1,255 fps	WAA12	WIN209
	24.4	9,100 PSI	1,255 fps	Windjammer	CCI209
	25.0	10,800 PSI	1,310 fps	Rem. Fig 8	WIN209
	25.7	10,200 PSI	1,310 fps	Windjammer	CCI209

SINGLE ACTION SHOTGUN

12 Gauge 2¾" Winchester Compression-Formed AA Type Shells					
28g (1 oz)					
Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AS30N	17.6	6,400 lup	1,125 fps	Purple PC	Rem. 209P
	16.6	6,700 lup	1,125 fps	Rem. TGT 12	CCI209
	16.0	7,400 lup	1,125 fps	WAA12SL	WIN209
	18.6	6,800 lup	1,180 fps	Purple PC	Rem. 209P
	17.7	7,700 lup	1,180 fps	Rem. TGT 12	CCI209
	17.2	8,300 lup	1,180 fps	WAA12SL	WIN209
	19.5	7,200 lup	1,235 fps	Purple PC	Rem. 209P
	18.7	8,500 lup	1,235 fps	Rem. TGT 12	CCI209
	18.5	9,200 lup	1,235 fps	WAA12SL	WIN209
	20.5	7,600 lup	1,290 fps	Purple PC	Rem. 209P
	19.8	9,500 lup	1,290 fps	Rem. TGT 12	CCI209
19.8	10,200 lup	1,290 fps	WAA12SL	WIN209	
AS50N	20.8	5,900 lup	1,125 fps	Rem. TGT 12	Rem. 209P
	19.2	6,700 lup	1,125 fps	WAA12SL	CCI209
	18.9	6,900 lup	1,125 fps	WAA12SL	WIN209
	21.5	7,100 lup	1,180 fps	Rem. TGT 12	Rem. 209P
	20.6	7,500 lup	1,180 fps	WAA12SL	CCI209
	20.4	8,300 lup	1,180 fps	WAA12SL	WIN209
	22.3	7,800 lup	1,235 fps	Rem. TGT 12	Rem. 209P
	22.3	8,800 lup	1,235 fps	WAA12SL	CCI209
	21.3	8,900 lup	1,235 fps	WAA12SL	WIN209
12 Gauge 2¾" Winchester Compression-Formed AA Type Shells					
32g (1 1/8 oz)					
Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AS30N	17.1	7,200 lup	1,090 fps	Red PC	Rem. 209P
	16.0	7,700 lup	1,090 fps	Rem. Fig 8	WIN209
	16.1	7,700 lup	1,090 fps	WAA12	WIN209
	18.4	7,800 lup	1,145 fps	Red PC	Rem. 209P
	17.0	8,500 lup	1,145 fps	Rem. Fig 8	WIN209
	17.3	8,800 lup	1,145 fps	WAA12	WIN209
	19.6	8,400 lup	1,200 fps	Red PC	Rem. 209P
	18.1	9,400 lup	1,200 fps	Rem. Fig 8	WIN209
	18.2	9,800 lup	1,200 fps	WAA12	WIN209
AS50N	18.3	6,800 lup	1,090 fps	Red PC	WIN209
	17.6	7,400 lup	1,090 fps	WAA12	WIN209
	18.9	7,200 lup	1,145 fps	Red PC	WIN209
	20.1	6,300 lup	1,145 fps	Rem. Fig 8	Rem. 209P
	18.1	8,300 lup	1,145 fps	WAA12	WIN209
	20.2	8,300 lup	1,200 fps	Red PC	WIN209
	21.1	7,700 lup	1,200 fps	Rem. Fig 8	Rem. 209P
	19.2	9,600 lup	1,200 fps	WAA12	WIN209
	21.3	9,700 lup	1,255 fps	Red PC	WIN209
AP70N	22.5	9,000 PSI	1,200 fps	Rem. Fig 8	WIN209
	22.0	10,000 PSI	1,200 fps	WAA12	WIN209
	23.5	10,000 PSI	1,255 fps	Rem. Fig 8	WIN209

SINGLE ACTION SHOTGUN

12 Gauge 2¾" Winchester Compression-Formed AA Type Shells

32g (1 1/8 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
	22.7	10,600 PSI	1,255 fps	WAA12	WIN209
	24.5	10,700 PSI	1,310 fps	Rem. Fig 8	WIN209

16 Gauge 2¾" Remington Premier SP Plastic Shells

28g (1 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AP70N	18.5	8,800 PSI	1,165 fps	Rem. SP 16	WIN209
	18.5	9,000 PSI	1,165 fps	WAA16	WIN209
	19.8	9,900 PSI	1,220 fps	Rem. SP 16	WIN209
	19.5	9,000 PSI	1,220 fps	WAA16	WIN209
	20.5	10,400 PSI	1,275 fps	Rem. SP 16	WIN209
	20.5	10,400 PSI	1,275 fps	WAA16	WIN209

16 Gauge 2¾" Winchester Compression-Formed Shells

28g (1 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AP70N	19.0	8,800 PSI	1,165 fps	ACTIV G-28	WIN209
	19.0	9,200 PSI	1,165 fps	WAA16	WIN209
	20.3	9,700 PSI	1,220 fps	ACTIV G-28	WIN209
	20.0	10,300 PSI	1,220 fps	WAA16	WIN209
	21.5	10,600 PSI	1,275 fps	ACTIV G-28	WIN209
	20.7	11,000 PSI	1,275 fps	WAA16	WIN209

20 Gauge 2¾" Remington RXP Plastic Shells

24g (7/8 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AS50N	14.0	10,700 PSI	1,200 fps	RXP20	Rem. 209P
	14.0	11,900 PSI	1,200 fps	WAA20	WIN209
AP70N	15.8	9,000 PSI	1,200 fps	RXP20	Rem. 209P
	15.8	9,600 PSI	1,200 fps	WAA20	WIN209

20 Gauge 2¾" Winchester Compression-Formed AA Type Shells

24g (7/8 oz)

Powder	Weight (grains)	Pressure	Velocity	Wad type	Primer type
AS50N	14.0	11,200 PSI	1,200 fps	PC20	WIN209
	14.0	10,800 PSI	1,200 fps	RXP20	Rem. 209P
	14.0	11,800 PSI	1,200 fps	WAA20	WIN209
AP70N	15.8	9,800 PSI	1,200 fps	RXP20	Rem. 209P
	15.5	10,200 PSI	1,200 fps	WAA20	WIN209

POWDER EQUIVALENTS

MANUFACTURERS								
ADI	Hodgdon	Alliant	IMR	Winchester	Vectan	Norma	Accurate Arms	Vihtavuori
						R-1		
		Bullseye						N310
AS30N	Clays	Red Dot			AS	N2010	NITRO 100	
Trail Boss			Trail Boss					
AP50N	HP-38	e3	PB	W231			AA 2	N320
AS50N	International	Green Dot	700X	WST			AA5	
AP70N	Universal	Unique	SR 7625					N330
		Herco		WSF	A1			
			800X	WAP			AA7	N340
AP100			SR 4756					AP100
	HS-6			W540				3N37
	HS-7	Blue Dot		W571			AA9	N350
		Steel			Ba 6			N105
		2400	SR 4759					N110
AR2205	H4227 / H110		IMR 4227	W296		R-123	AA 1680	N120
AR2207	H4198	Reloader 7	IMR 4198	W680	Tu 2000	N200		N130
Bench Mark1								N133
AR2219	H322	10-X						
Bench Mark 2	BENCHMARK		IMR 3031				AA 2015	
Bench Mark 8208			IMR 8208 XBR					
AR2206	BLC(2)				Tu 3000		AA 2230	
	N335			W748				N135
AR2206H	H4895		IMR 4895		Tu 5000		AA 2460	
AR2208	Varget		IMR 4064				AA 2520	
			IMR 4320			N201		
						N202	AA 2700	N140 / N540
	H380	Reloader 15				N203		
AR2209	H414 / H4350		IMR 4350	W760	Tu 7000	N204	AA 4350	N150 / N550
	H450	Reloader 19				N205		
			IMR 4831	WMR			AA 3100	N160 / N560
AR2217	H4831							
		Reloader 22	IMR 7828	WXR	Tu 8000	MRP		N165
AR2217	H1000							N170
AR2225	Retumbo	Reloader 25					Magpro	24N41
AR2218	H870 / H50BMG						AA 8700	20N29

NOTE:

Table shows only approximate equivalent values within about 5%. Actual burning rates can vary depending on the calibre, weapon, loading components and practices, as well as from powder lot to. As a consequence, it must be understood that Australian Munitions cannot accept any responsibility for use of this information in any way.

BURNING RATE EXAMPLES

POWDER	BURNING RATE	EXAMPLES OF APPLICATION			
		PISTOL	SHOTGUN	RIFLE	
AS30N	Fastest		12 Gauge trap/skeet load		
Trail Boss	↑	.45 Colt		45-70 Government	
AP50N		.45 ACP			
AS50N			12 Gauge trap/sporting		
AP70N		40-40 Winchester	12 Gauge field load		
AP100		.38 Super Auto	20 Gauge	.22 Hornet	
AR2207		.7mm TCU		.222 Remington	
Bench Mark 1				.223 Remington	
AR2219				6mm PPC	
Bench Mark 2				.22-250 Remington	
Bench Mark 8208				.204 Ruger	
AR2206				.308 Winchester	
AR2206H				257 Roberts	
AR2208				30-30 Winchester	
AR2209				30-06 Springfield	
AR2213SC				300 Win. Magnum	
AR2217				7mm Rem. Magnum	
AR2225				300 Rem. Ultra Magnum	
Ar2218		Slowest			.30/378 Weatherby

This section provides examples of applications for the ADI powders across the range of burning rates.



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The ADI Powders Handloaders' Guide is available at gun shops where ADI powders are sold.

For handloading information:

Australian Munitions will respond to written enquiries with safe and technically accurate advice.

Send your enquiries to: reload.support@adi-powders.com.au

By mail to: Reloading Enquiries, Australian Munitions, Private Bag No 1, Mulwala, New South Wales 2647, Australia or fax to: +61 (0)3 5744 1873.

Visit us at: www.adi-powders.com.au

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ADI powders are sold at major gun shops.

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